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AUTUMN 1974

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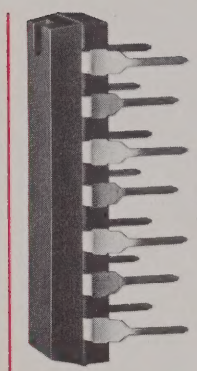
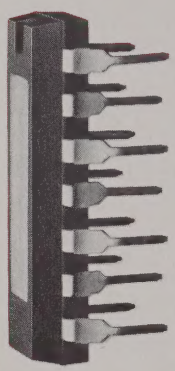
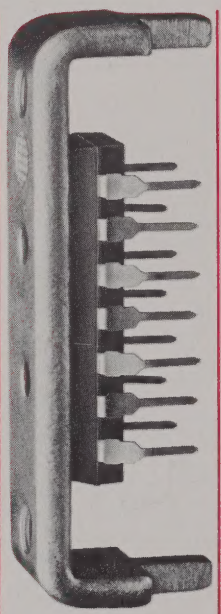


TBA 820
2W - 12V - 8Ω
0.75W - 6V 4Ω



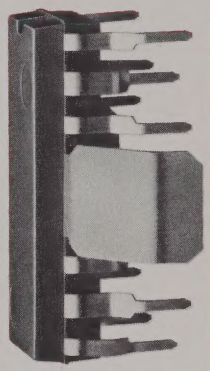
TAA 621 A12
2.2W - 18V - 16Ω

TAA 611 B12
1.15W - 9V - 8Ω



TBA 641 B11
4.5W - 14V - 4Ω

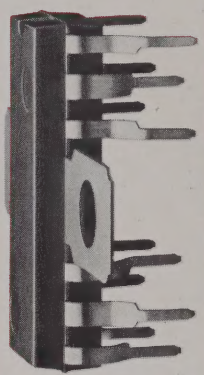
TAA 621 A11
4W - 24V - 16Ω



TBA 810S
6W - 14.4V - 4Ω
Thermal shut-down

TBA 800
5W - 24V - 16Ω
4.7W - 18V - 8Ω

TCA 830
3.4W - 12V - 4Ω
2W - 9V - 4Ω
Thermal shut-down



TCA 940
10W - 20V - 4Ω
6.5W - 20V - 8Ω
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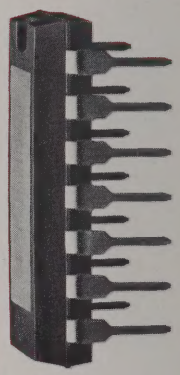
TBA 810AS
6W - 14.4V - 4Ω
Thermal shut-down



TDA 2020
15W - ±15V - 4Ω
(THD = 1%)

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DIGITAL INTEGRATED CIRCUITS: More than 15,400 type numbers from 80 worldwide manufacturers are tabulated by characteristic in standardized format for easy reference. Includes logic and outline drawings, 800 military types with QPL manufacturers and applicable MIL Spec references. Now also contains the two best-known replacement series. Subscription includes two (2) semi-annual editions.

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SEMICONDUCTOR APPLICATION NOTES: Offers easy access to the application notes on over 2,600 circuits from 60 manufacturers. Notes are tabulated in Analog and Digital circuit categories, plus Discrete and IC Device Categories, with sub-categories providing application details. Principal device types referenced for each circuit application. Subscribers can order notes published by these manufacturers from a single source. . .D.A.T.A. . . by using the "Request Cards" bound in the book. Listing of notes revised semi-annually.

SEMICONDUCTOR HEAT SINK, SOCKET & ASSOCIATED HARDWARE: Perfect design companion to the Transistor, Semiconductor Diode, Linear & Digital IC, and MSI-LSI Memory D.A.T.A. BOOKS. Lets you know what is available in all types of heat sinks, sockets, retaining clips and other devices for mechanically mounting semi-conductors. Supplies outline drawings, hole patterns and references to standard JEDEC semiconductor outlines for mounting capability. Covers 8,600 devices and is published annually.

MICROWAVE TUBES: Indexes 4,700 types from 34 manufacturers for military and commercial application. Includes BWTs, TWTs, Crossed-Field Amplifiers, Noise Generators, Helitrons, Klystrons, Magnetrons and Platinontrons, TRs and ATRs. Arranged in order of tube type, center frequency, power output and type number. Identifies QPL manufacturers and military specifications. Now includes 2,300 discontinued types. Published semi-annually.

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AUTUMN 1974 12th EDITION

EXECUTIVE AND EDITORIAL OFFICES
32 Lincoln Ave., Orange, N.J. 07050
Tel: (201)673-8030 TWX: 710-994-5839

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Purpose

This D.A.T.A.BOOK is designed to report comprehensively on what is presently being produced throughout the free world in the field of LINEAR IC devices. While a book such as this can not provide 100% of the information you might need, its primary aims are those of facilitating the selection of types suitable to your technical requirements, and of directing you to the sources of their manufacture.

Technical Data Acquisition

D.A.T.A. acquires and processes the information presented in this D.A.T.A.BOOK with the cooperation of the participating manufacturers who supply us with their latest technical information. Manufacturers are not charged for the listing of their products.

JEDEC Outlines

At the time this D.A.T.A.BOOK was prepared, there were no JEDEC type numbers; however, some of the devices have the JEDEC— designated DO—, MO— and TO— outlines which are included as applicable in the Outline Drawing Section.

Military Type Numbers

The electrical, mechanical and environmental information tabulated for the military types in the technical sections is derived directly from the applicable military specifications and standards. The source information, showing the particular manufacturers qualified for each type, is derived from the QPL (Qualified Parts List) associated with the governing specification, or from the manufacturers Qualification Test Letters.

Substitute Types And Compatibility

This D.A.T.A.BOOK can not truly claim to be an interchangeability chart; however, because of the sequencing arrangement of selected characteristics in the technical sections, types with the same or similar characteristics are grouped together. For purposes of replacement, this means of thorough, convenient technical comparison should prove superior to, and safer than, a mere listing of possible substitute type numbers.

Price And Availability

Because of the rapidly-changing and complex nature of this field, current price and delivery information should be obtained direct from the manufacturers. The list of manufacturers and the Local Offices Section in back of the book will assist you in this.

Manufacturers' Specifications

This book includes currently-manufactured devices with their major characteristics, drawings and manufacturers. Every effort is made to ensure the accuracy of the entries herein; however, the publisher can not be held responsible nor guarantee against the possibility of error or omission. Only the manufacturers or their authorized representatives can provide you with complete technical details.

HOW TO MAKE MAXIMUM USE OF THIS D.A.T.A.BOOK

To make maximum use of this D.A.T.A.BOOK, select the particular known-unknown situation below that defines your problem, and follow the instructions as indicated.

1	KNOWN: Electrical and Mechanical Requirements UNKNOWN: Suitable Type Numbers a. Turn to the Table of Contents (first page) and select the technical data section corresponding to the subject device type. b. Turn to any page in the selected section. Note the sequencing parameters (those characteristics for which the data is sequenced) indicated at the top corner of the page. c. Using the sequencing parameters, locate the type numbers that are in general agreement with your requirements. (Because of the sequencing arrangement, these types will appear together, in groups and sub-groups.) From among these, select the one or ones most suitable. d. To identify the manufacturer of the selected type number(s), follow the instructions in Block 2 below.
2	KNOWN: Type Number UNKNOWN: Manufacturer(s), Address, Local Offices a. Turn to Type No. Cross-Index (Section 2) and locate the subject type number. (Refer to 'HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX'.) b. Note the 3- or 4-letter manufacturer's code(s), e.g., TII, GESY, indicated for each of the subject types. c. Use the listing of 'MANUFACTURERS & THEIR CODES' in back of the book to identify the codes. (Note: Local offices for manufacturers shown in bold print on this listing are identified in a special section in back of the book.)
3.	KNOWN: Type Number UNKNOWN: Its Electrical Characteristics, And/Or Circuit and Outline Drawings a. Turn to Type No. Cross-Index and locate the subject type number. b. Note the page and line number, e.g., 70-104, alongside the type number. c. Locate the type number as noted, in the technical sections. (Note: Along with the electrical and performance characteristics listed for each type number are references to the circuit and outline drawings, located in Section 13 and Section 14, respectively.)
4	KNOWN: Type Number UNKNOWN: Equivalent Types for Replacement a. Follow the instructions in Block 3 above. b. Survey the type numbers surrounding the subject number to determine the suitable alternatives.
5	KNOWN: Military Requirements UNKNOWN: Suitable Type Number(s) a. Follow the instructions in Block 1, to determine the general type numbers that meet the military requirements. From among these, select the military types by means of the identifying prefix (M38510). b. To identify the manufacturers, follow the instructions in Block 6.
6	KNOWN: Military Type Number UNKNOWN: Qualified Manufacturers And/Or Applicable Military Specification a. Turn to Section 12 (TYPES WITH U. S. MILITARY SPECIFICATIONS), and locate the subject type number. (Type numbers are arranged in alpha-numeric order.) b. Note the manufacturer's code(s) and detail specification listed next to the type number. (The detail specification added to the general specification indicated in the column heading for the detail specification, makes up the complete military specification for the subject device.) c. Use the listing of MANUFACTURERS & THEIR CODES in back of the book to identify the manufacturer code(s).
7	KNOWN: Type Number Not Included In Book UNKNOWN: What Happened To It? a. Consult D.A.T.A.BOOK OF DISCONTINUED INTEGRATED CIRCUITS.

USE OF POWERS-OF-TEN MULTIPLIERS AND SYMBOLS & CODES IN THE TECHNICAL SECTIONS

To present a maximum amount of information in a minimum amount of space, use is made in this book of the following data modifiers:

POWERS-OF-TEN MULTIPLIERS

The powers-of-ten multipliers shown below are used in numeric columns when the value being entered is many times greater or smaller than the units of measure indicated in the column heading. Usually, the latter are the so-called 'basic' units; such as V (volts), A (amperes) and s (seconds). The multipliers and an explanation of their use are given below:

MULTIPLIERS

PREFIXES & SYMBOLS Indicating Powers of Ten — Recommended by International Committee on Weights and Measures Adopted by National Bureau of Standards

Power	Prefix	Symbol	Power	Prefix	Symbol	Power	Prefix	Symbol
10^{12}	tera	T	10	deka	da	10^{-9}	nano	n
10^{9}	giga	G	10^{-1}	deci	d	10^{-12}	pico	p
10^{6}	mega	M	10^{-2}	centi	c	10^{-15}	femto	f
10^{3}	kilo	k	10^{-3}	milli	m	10^{-18}	atto	a
10^{2}	hecto	h	10^{-6}	micro	μ			

EXPLANATION

Value of Data To Be Entered	Basic Unit In Column Heading	Actual Entry
3 milliamperes	A (amperes)	3.0m
9 megaohms	Ω (ohms)	9.0M
0.5 volt	V (volts)	500m *
10 amperes	A (amperes)	10

* May also be written as 0.5, with no multiplier

SYMBOLS & CODES

Symbols — Symbols such as #, △, and $ are used in all columns, numeric or otherwise, whenever the data entries differ in some way from the entity defined in the column heading. For instance, if a given heading specifies Max. Power (in Watts) and the numeric value being entered for a given type represents the minimum power instead, the variance is denoted by the appearance of a special symbol alongside the numeric entry.

NOTE: The symbols and codes used herein are explained on the cards in back of the book.

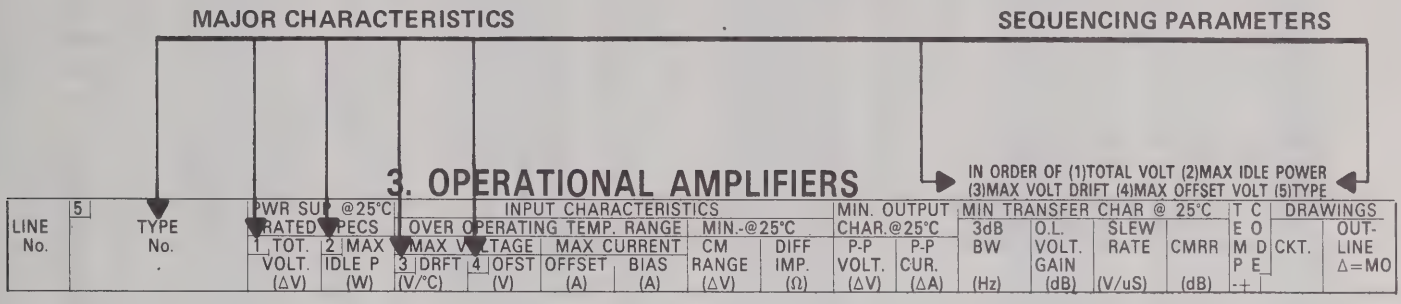
Codes — Codes are used in some columns as means to abbreviate the data being entered. The codes may be alphabetic (A,B,C, etc.) numeric (1,2,3, etc.) or some combination of both.

HOW TYPE NUMBERS ARE SEQUENCED IN THE TYPE NUMBER CROSS-INDEX

Sequencing of type numbers in the Type Number Cross-Index is governed by the following rules:

Rules:	EXAMPLES
1) Type numbers are listed in numeric-alphabetic sequence; i.e., type numbers beginning with a number (decimal, fraction, or whole) precede type numbers beginning with a letter.	13A01 143 1202 A147 AN127 B2000
2) Decimals and fractions precede whole numbers. An equivalent decimal precedes the fraction when the remainder of type number is identical.	25Z150 1/4Z150 3/4M12Z 1T3
3) Zeros are ignored in sequencing except when the zero is the only basis for distinguishing one type number from another. In this case the type number containing the zero is listed first.	0112 112 0113 00115 AP01 AP1 AP02
4) Number and/or letter groupings preceding hyphens or slashes are the controlling factors in sequencing. The hyphens and slashes themselves precede any identically positioned letters also having the same beginning number/letter groupings.	66-0706 66M1 70/10 70A9

The arrangement of types in the technical sections is keyed to a set of special characteristics selected for their importance from among the general group of characteristics tabulated in each section. These selected characteristics, or sequencing parameters, differ from one section to another, and are identified at the top corner of each page, as shown in the sample below.



The different types within a section are first arranged in ascending numeric (or alphabetic) order of the first such parameter. Groups of types having a common value for the first parameter are then arranged in ascending order of the second parameter. This process continues for each parameter in turn, up to and including the last parameter which, in every instance, is the type number itself. The final arrangement, by type number, is done in accordance with the sequencing of type numbers in the cross-index, as explained on the preceding page.

A simplified model of the arrangement as described is shown below.

4 Type Number	Characteristics 1 A	2 B	C	3 D
A13	100		325	
A4	100		1000	20
A9	100	A	20	25
A10	100	A	200	25
A3	100	B	40	15
A1	100	C	80	10
A8	100	C	900	15
A7	100	D	35	30
A11	110	A	60	25
A2	120	A	300	15
A5	120	B	150	20
A6	120	B	200	20
A12	120	B	475	25
	Last Seq. Par.	1st Seq. Par.	2nd Seq. Par.	(Not Seq.)	3rd Seq. Par.

Note that the absence of an entry for any sequencing parameter is regarded as a zero, and precedes any actual entries in the sequencing.

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line	TYPE No.	MFRS	Pg&Line
0-578A1	♦DDC	30-46	10Q6ARQA	♦CDI	27-99	42NT100	♦ACO	70-34	144A	♦ANA	25-80	260J	♦ANA	27-71
0-578A2	♦DDC	30-56	10Q6ARQB	♦CDI	27-100	43J	♦ANA	27-17	144E	♦ITH	45-24	260K	♦ANA	27-68
0-578B1	♦DDC	30-91	10Q7ARQ	♦CDI	31-106	44E03	ACO	70-35	144F	♦ITH	45-25	272J	♦ANA	42-107
0-578B2	♦DDC	30-107	10Q7ARQA	♦CDI	31-107	44J	♦ANA	24-49	144K	♦ANA	25-79	273J	♦ANA	42-106
0-578B3	♦DDC	31-3	10Q7ARQB	♦CDI	31-108	44K	♦ANA	24-33	144L	♦ITH	45-33	300A	♦DMC	43-16
0-578C1	♦DDC	31-6	10Q8AQAF	♦CDI	31-109	44NT100	♦ACO	70-36	144N	♦ITH	45-34	300B	♦DMC	43-15
0-578C2	♦DDC	31-9	10Q8AQBF	♦CDI	31-110	45E03	ACO	70-37	145	♦ZEL	32-53	301	ANA	34-8
1-578A1	♦DDC	30-47	10Q9ARQ	♦CDI	27-101	45J	ANA	29-77	145-08	♦ZEL	32-51	301AH	INL	34-65
1-578A2	♦DDC	30-57	10Q9ARQA	♦CDI	27-102	45K	ANA	29-51	145L	♦ZEL	32-54	301AN	INL	34-66
1-578B1	♦DDC	30-92	10Q9ARQB	♦CDI	27-103	46J	♦ANA	43-9	146	♦ITH	45-23	308AD	INL	35-85
1-578B2	♦DDC	30-108	10Q10ARQ	♦CDI	28-22	46K	♦ANA	43-8	146J	♦ANA	26-26	308AF	INL	35-86
1-578B3	♦DDC	31-1	10Q10ARQA	♦CDI	28-23	46NT100	♦ACO	70-38	146K	♦ANA	25-109	308F	INL	34-37
1-578C1	♦DDC	31-4	10Q10ARQB	♦CDI	28-24	47A	♦ANA	24-50	147	♦ZEL	32-10	308H	INL	34-38
1-578C2	♦DDC	31-7	10Q11ARQ	♦CDI	32-1	47B	♦ANA	24-2	147A	♦ZEL	33-13	310J	ANA	32-35
1D24-250	♦MIA	74-47	10Q11ARQA	♦CDI	32-2	47S	♦ANA	24-15	147A△	ANA	34-17	310K	ANA	32-33
1D44-450	♦MIA	74-48	10Q11ARQB	♦CDI	32-3	47T	♦ANA	24-3	147B	ANA	34-16	310VF	♦SSE	68-67
1D84-850	♦MIA	74-49	11E11	ACO	69-60	48E03	ACO	70-39	147C	ANA	34-15	311J	ANA	32-36
1E25	ACO	69-1	11E22	ACO	69-61	48E05	ACO	70-40	148	♦ZEL	31-87	311K	ANA	32-34
1E50	ACO	69-2	11E60	ACO	69-62	48NT100	♦ACO	70-41	148A	ANA	34-7	320	OPA	78-68
1NT100	♦ACO	69-3	12E10	ACO	69-63	50E03	ACO	70-42	148B	ANA	34-6	320VF	♦SSE	68-68
1NT175	♦ACO	69-4	12E20	ACO	69-64	50E05	ACO	70-43	148C	ANA	31-88			78-69
1S24-2100	♦MIA	74-50	12E70	ACO	69-65	55E04	ACO	70-44		♦ZEL		330VF	♦SSE	68-69
1S44-4100	♦MIA	74-51	12NT100	♦ACO	69-66	60E05	ACO	70-45	149A	ANA	34-14			78-70
1S84-8100	♦MIA	74-52	12NT200	♦ACO	69-67	65E05	ACO	70-46	149B	ANA	34-13	340VF	♦SSE	68-70
1.5E25	ACO	69-5	13E10	ACO	69-68	70E04	ACO	70-47	149C	ANA	34-12			78-71
1.5E50	ACO	69-6	13E20	ACO	69-69	75E03	ACO	70-48	153J	♦ANA	16-18	350A	ANA	63-47
1.5E100	ACO	69-7	13E60	ACO	69-70	101#1	♦HBC	67-67	153K	♦ANA	16-17	350B	ANA	63-46
1.5NT100	♦ACO	69-8	14E10	ACO	69-71	101#2	♦HBC	68-29	155L	♦ITH	45-29	350C	ANA	63-45
1.5NT175	♦ACO	69-9	14E20	ACO	69-72	101A	ANA	33-58	155N	♦ITH	45-30	360BM	OPA	45-79
2E20	ACO	69-10	14E50	ACO	69-73	101AD	INL	38-8	162	♦ITH	26-43	360M	OPA	45-82
2E40	ACO	69-11	14NT100	♦ACO	69-74	101AF	INL	38-9			45-36	365L	OPA	82-9
2NT100	♦ACO	69-12	14NT200	♦ACO	69-75	101AH	INL	38-10	162A	♦DMC	33-8	370	OPA	82-10
2NT175	♦ACO	69-13	15D810-815	♦MIA	74-57	101B	ANA	33-57	162B	♦DMC	33-5	376	♦OEI	67-9
3D24-2150	♦MIA	74-53	15E10	ACO	69-76	101C	ANA	33-56	162C	♦DMC	33-2	380	OPA	82-11
3D44-4150	♦MIA	74-54	15E20	ACO	69-77	101D	INL	37-48	163A	ANA	32-29	391	ZEL	43-45
3E25	ACO	69-14	15E60	ACO	69-78	101F	INL	37-49		♦DMC		395	♦OEI	67-6
3E50	ACO	69-15	15NT100	♦ACO	69-79	101H	INL	37-50	163K	ANA	41-29	396	♦OEI	67-3
3NT100	♦ACO	69-16	15NT200	♦ACO	69-80	101N5	♦EELC	50-49	165A	ANA	41-30	400	♦DMC	41-81
3NT175	♦ACO	69-17	15S85-815	♦MIA	74-58	101N9	♦EELC	51-104	165K	ANA	41-31			70-49
3S24-21600	♦MIA	74-55	15T85-815	♦MIA	74-59	101N12	♦EELC	53-37	170	♦ZEL	16-55	400A	♦DMC	70-50
3S44-41600	♦MIA	74-56	16E08	ACO	69-81	101N15	♦EELC	54-66	171A	♦DMC	27-92	401	♦DMC	70-51
3.6E25	ACO	69-18	16E16	ACO	69-82	101N18	♦EELC	55-61	171B	♦DMC	27-86	401A	♦DMC	70-52
3.6E50	ACO	69-19	16E50	ACO	69-83	101N24	♦EELC	58-21	171C	♦DMC	27-80	402	♦DMC	34-108
3.6E100	ACO	69-20	16NT100	♦ACO	69-84	101P5	♦EELC	50-50	172A	♦DMC	28-36			70-53
3.6NT100	♦ACO	69-21	16NT200	♦ACO	69-85	101P9	♦EELC	51-105	172B	♦DMC	28-35	402A	♦DMC	70-54
3.6NT175	♦ACO	69-22	17E07	ACO	69-86	101P12	♦EELC	53-38	172C	♦DMC	28-34	403	♦DMC	41-74
3.6NT300	♦ACO	69-23	17E14	ACO	69-87	101P15	♦EELC	54-67	174A	♦DMC	41-37			70-55
4E20	ACO	69-24	17E45	ACO	69-88	101P18	♦EELC	55-62	174B	♦DMC	41-36	403A	♦DMC	70-56
4E40	ACO	69-25	18E06	ACO	69-89	101P24	♦EELC	58-22	176A	♦DMC	43-1	409	♦DMC	41-75
4NT100	♦ACO	69-26	18E12	ACO	69-90	103#1	♦HBC	67-68	176B	♦DMC	42-110			70-57
4NT175	♦ACO	69-27	18E40	ACO	69-91	103#2	♦HBC	68-30	180A	ANA	41-95	409A	♦DMC	70-58
5E25	ACO	69-28	18NT100	♦ACO	69-92	106A	♦HBC	31-16		♦DMC		410△	♦DMC	70-59
5E50	ACO	69-29	18NT200	♦ACO	69-93			68-31	180B	ANA	41-93	410☑	SSE	68-34
5E100	ACO	69-30	19E06	ACO	69-94	107A1	♦BAH	29-18		♦DMC		410A	♦DMC	70-60
5E150	ACO	69-31	19E12	ACO	69-95	107A2	♦BAH	29-22	180J	ANA	34-2	410KF	SSE	68-37
5NT100	♦ACO	69-32	19E40	ACO	69-96	107B1	♦BAH	29-27	180K	ANA	34-1	411△	♦DMC	70-61
5NT200	♦ACO	69-33	20E06	ACO	69-97	107C1	♦BAH	29-42	181A	♦DMC	41-96	411A	♦DMC	70-62
5NT400	♦ACO	69-34	20E12	ACO	69-98	107C△	♦HBC	67-40	181B	♦DMC	41-94	415	♦OPA	41-78
6E20	ACO	69-35	20E40	ACO	69-99	107C-MIL	♦HBC	67-41	183J	ANA	18-47	416#1	♦OPA	32-89
6E40	ACO	69-36	20NT100	♦ACO	69-100	108	♦HBC	33-107	183K	ANA	18-46	416#2	♦OPA	41-53
6E100	ACO	69-37	21E06	ACO	69-101			68-32	183L	ANA	18-45	416#3	♦OPA	41-84
6NT100	♦ACO	69-38	21E12	ACO	69-102	108A1	♦BAH	29-31	184J	♦ANA	31-24	420	SSE	67-55
6NT200	♦ACO	69-39	21E37	ACO	69-103		♦DDC		184K	♦ANA	31-23	420☑	OPA	41-42
007A1	♦BAH	29-38	22E05	ACO	69-104	108A2	♦BAH	29-43	184L	♦ANA	31-22	420KF	SSE	68-38
	♦DDC		22E10	ACO	69-105		♦DDC		201AD	INL	38-11	422J	ANA	67-48
007A2	♦BAH	29-21	22E30	ACO	69-106	108A	ANA	28-39	201AF	INL	38-12	422K	ANA	67-49
	♦DDC		22NT100	♦ACO	69-107	108AF	INL	35-80	201AH	INL	38-13	424J	♦ANA	67-57
007A3	♦DDC	22-69	23E05	ACO	69-108	108AH	INL	35-81	201D	INL	37-64	424K	♦ANA	67-58
007A4	♦DDC	22-70	23E10	ACO	69-109	108B1	♦BAH	29-59	201F	INL	37-65	425#1	♦OPA	17-70
007B1	♦BAH	29-26	23E30	ACO	69-110		♦DDC		201H	INL	37-66	425#2	♦OPA	41-51
007C1	♦BAH	29-40	24E05	ACO	70-1	108B2	♦BAH	29-82	207A	♦DDC	22-76	425J	♦ANA	67-59
7E17	ACO	69-40	24E10	ACO	70-2		♦DDC		208A1	♦DDC	29-32	425K	♦ANA	67-60
7E34	ACO	69-41	24E35	ACO	70-3	108B3	♦BAH	29-95	208A2	♦DDC	29-44	426J#1	ANA	67-24
7E90	ACO	69-42	24NT100	ACO	70-4		♦DDC		208AD	INL	35-82	426J#2	ANA	68-21
7NT100	♦ACO	69-43	25E05	ACO	70-5	108B	ANA	28-38	208AF	INL	35-83	426K#1	ANA	67-25
7NT200	♦ACO	69-44	25E10	ACO	70-6	108C1	♦DDC	29-108	208AH	INL	35-84	426K#2	ANA	68-22
008A1	♦BAH	29-30	25E32	ACO	70-7	108C2	♦DDC	30-2	208B1	♦DDC	29-60	427J#1	♦ANA	67-61
	♦DDC		26E04	ACO	70-8	108C	ANA	28-37	208B2	♦DDC	29-83	427J#2	♦ANA	68-26
008A2	♦BAH	29-41	26E08	ACO	70-9	108F	INL	35-39	208B3	♦DDC	29-96	427K#1	♦ANA	67-62
	♦DDC		26E30	ACO	70-10	108H	INL	35-40	208C1	♦DDC	29-109	427K#2	♦ANA	68-27
008B1	♦BAH	29-58	26NT100	♦ACO	70-11	109#1	♦HBC	67-69	208C2	♦DDC	30-3	428J#1	♦ANA	67-26
	♦DDC		27E04	ACO	70-12	109#2	♦HBC	68-33	208F	INL	35-41	428J#2	♦ANA	68-23
008B2	♦BAH	29-81	27E08	ACO	70-13	112A	♦DMC	25-55	208H	INL	35-42	428K#1	♦ANA	67-27
	♦DDC		27E32	ACO	70-14	112B	♦DMC	25-46	210	ANA	34-20	428K#2	♦ANA	68-24
008B3	♦BAH	29-94	28E04	ACO	70-15	118A	ANA	25-56	211	ANA	34-21	430☑	SSE	68-35
	♦DDC		28E08	ACO	70-16	118A☑	BAH	23-110	218A	BAH	24-1	430KF	SSE	68-39
008C1	♦DDC	29-107	28E30	ACO	70-17	118B	BAH	24-8	218B	BAH	24-9	432	OPA	41-83
008C2	♦DDC	30-1	28NT100	♦ACO	70-18	118C	BAH	24-16	218C	BAH	24-17			45-93
8E15	ACO	69-45	30E08	ACO	70-19	118K	ANA	25-40	228A	BAH	31-104	432J#1	♦ANA	67-23
8E30	ACO	69-46	30NT100	♦ACO	70-20	119A	ANA	19-31	228B	BAH	31-84	432J#2	♦ANA	68-20
8E70	ACO	69-47	32E07	ACO	70-21	119K	ANA	19-25	228C	BAH	32-24	435#1	♦OPA	17-71
8NT100	♦ACO	69-48	32NT100	♦ACO	70-22	120A	ANA	34-19	231A	ANA	31-20	435#2	♦OPA	41-52
8NT200	♦ACO	69-49	34E06	ACO	70-23	120B	ANA	34-18	231B	ANA	31-18	440☑	SSE	68-36
9E13	ACO	69-50	34NT100	♦ACO	70-24	123K	♦ITH	65-13	231J	ANA	31-21	440KF	SSE	68-40
9E26	ACO	69-51	35E05	ACO	70-25	123L	♦ITH	65-14	231K	ANA	31-19	440KR#1	♦OPA	32-90
9E85	ACO	69-52	36E05	ACO	70-26	125K	♦ITH	65-15	232A	ANA	25-75	440KR#2	♦OPA	41-54
9NT100	♦ACO	69-53	36NT100	♦ACO	70-27	125L	♦ITH	65-16	232B	ANA	25-72	440KR#3	♦OPA	41-85
9NT200	♦ACO	69-54	38E04	ACO	70-28	135P2	♦ZEL	33-34	232J	ANA	25-76	450KF	SSE	68-41
10E12	ACO	69-55	38NT100	♦ACO	70-29	136K2	♦ZEL	41-105	232K	ANA	25-73	460KF	SSE	68-42
10E24	ACO	69-56	40E03	ACO	70-30	137	♦ITH	45-37	233J	♦ANA	25-103	470KF	SSE	68-43
10E75	ACO	69-57	40E06	ACO	70-31	138	♦ITH	45-38	233K	♦ANA	25-97	480KF	SSE	68-44
10L2LA	♦CDI	30-78	40J	ANA	27-22	141A	ANA	33-110	233L	♦ANA	25-93	501A	♦ANA	29-98
10L3LB	♦CDI	65-58	40K	ANA	27-12	141B	ANA	33-109	238A	BAH	31-27	501B	♦ANA	29-62
10L4LA	♦CDI	30-79	40NT100	♦ACO	70-32	141C△	ANA	33-108	238B	BAH	31-45	501C	♦ANA	29-63
10M1CM	♦CDI	33-12	41J	♦ANA	30-95	142A	ANA	34-5	238C	BAH	31-50	509-01	♦BAH	78-72
10M3	♦CDI	25-6	41JV	♦ANA	25-59	142B	ANA	34-4	247A1	♦BAH	29-19	509-1	♦BAH	78-73
10NT100	♦ACO	69-58	41K	♦ANA	30-59	142C△	ANA	34-3	247A2	♦BAH	29-23	509-10	♦BAH	78-74
10NT200	♦ACO	69-59	41KV	♦ANA	25-48	143A	ANA	34-9	247B1	♦BAH	29-28	509-0015	♦BAH	78-75
10Q1ARQ	♦CDI	27-96	41L	♦ANA	30-96	143B	ANA	34-11	247C1	♦BAH	29-45	509-50	♦BAH	78-76
10Q1ARQA	♦CDI	27-97	41LV	♦ANA	25-60	143C△	ANA	34-10	248A1	♦BAH	29-33	510A25	♦BUB	74-60
10Q5ARQ	♦CDI	31-12	42E03	ACO	70-33	143E	♦ITH	45-21	248A2	♦BAH	29-46	515	♦OPA	70-63
10Q5ARQA	♦CDI	31-13	42J	♦ANA	18-85	143F	♦ITH	45-22	248B1	♦BAH	29-61	520-25	♦BUB	74-61
10Q5ARQB	♦CDI	31-14	42K	♦ANA	18-82	143L	♦ITH	45-31	248B2	♦BAH	29-84	524△	♦OPA	70-64
10Q6ARQ	♦CDI	27-98	42L	♦ANA	18-86	143N	♦ITH	45-32	248B3	♦BAH	29-97	524☑	♦BUB	70-65

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
525	♦EELC	45 - 26
		70 - 66
527	♦BUB	70 - 67
528Δ	♦OPA	70 - 68
528Ø	♦BUB	74 - 62
541	♦BUB	70 - 69
546	♦BUB	74 - 63
550	♦BUB	70 - 70
551	♦BUB	70 - 71
552	♦BUB	70 - 72
553	♦BUB	70 - 73
560	♦BUB	70 - 74
561	♦BUB	70 - 75
562	♦BUB	70 - 76
570	♦BUB	68 - 80
		70 - 77
571	♦BUB	68 - 61
		70 - 78
572	♦BUB	70 - 79
580	♦BUB	70 - 80
581	♦BUB	70 - 81
601%	ANA	43 - 14
602J10	♦ANA	43 - 13
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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LM207D	NSC	37 - 22
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LM207F	NECJ	37 - 23
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LM210F	INL	65 - 84
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LM210H	♦INL	65 - 85
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LM212F	NSC	36 - 44
LM212H	NSC	36 - 45
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LM216AF	NSC	35 - 71
LM216AH	NSC	35 - 72
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LM216F	NSC	35 - 77
LM216H	NSC	35 - 78
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LM218F	♦NSC	30 - 85
RTN	TSC	
LM218H	♦NSC	30 - 86
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LM219F	♦NSC	64 - 23
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LM220K12	♦NSC	53 - 31
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LM221H	NSC	36 - 68
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LM239D	♦NSC	59 - 3
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LM242J	♦TSC	38 - 51
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LM271H	NSC	46 - 51
LM272H	NSC	44 - 17
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LM272N	NSC	44 - 18
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LM274H	♦NSC	82 - 50
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LM300H	♦INL	52-108
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LM301N	RTN	22 - 81
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LM306H	♦NSC	63 - 1
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LM309K	FSC	51 - 1
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LM310D	♦INL	65 - 86
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LM310F	♦NSC	65 - 87
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LM311F	♦INL	63 - 91
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LM311H	FSC	63 - 92
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LM320H12	♦NSC	53 - 16
LM320H15	♦NSC	54 - 59
LM320K05	♦NSC	50 - 43
LM320K5.2	♦NSC	51 - 37
LM320K12	♦NSC	53 - 71
LM320K15	♦NSC	54 - 70
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LM321F	NSC	36 - 84
LM321H	NSC	37 - 1
LM323K	NSC	50 - 14
LM324D	♦NSC	16 - 13
LM324N	♦NSC	16 - 14
LM339AN	NSC	59 - 42
LM339D	♦NSC	59 - 4
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LM340T06	♦NSC	51 - 61
LM340T08	♦NSC	51-100
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LM340T15	♦NSC	54 - 34
LM340T18	♦NSC	55 - 52
LM340T24	♦NSC	58 - 17
LM341F	♦TSC	23 - 20
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LM341N8	♦TSC	34 - 70
LM341N14	♦TSC	34 - 71
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LM342H	♦TSC	23 - 24
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LM342N8	♦TSC	34 - 72
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LM372H	NSC	44 - 14
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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LM529CN	NSC	64 - 47
LM529H	NSC	64 - 45
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LM565CN	♦NSC	84 - 4
LM565H	♦NSC	84 - 5
LM566CH	NSC	79 - 20
LM566CN	NSC	79 - 21
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LM710CN	NECJ	60 - 71
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LM710H	NSC	60 - 20
LM711AH	NSC	61 - 23
LM711CH	NSC	61 - 81
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LM723CH	NSC	55 - 96
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LM741F	NSC	19 - 70
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LM1845N01	NSC	80 - 79
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JANM38510/10101AHB		none | 39 - 16
JANM38510/10101AHC		none | 39 - 17
JANM38510/10101BAA		none | 39 - 18
JANM38510/10101BAB		none | 39 - 19
JANM38510/10101BAC		none | 39 - 20
JANM38510/10101BBA		none | 39 - 21
JANM38510/10101BBB		none | 39 - 22
JANM38510/10101BBC		none | 39 - 23
JANM38510/10101BCA		none | 39 - 24
JANM38510/10101BCB		FSC | 39 - 25
JANM38510/10101BCC		none | 39 - 26
JANM38510/10101BDA		none | 39 - 27
JANM38510/10101BDB		none | 39 - 28
JANM38510/10101BDC		none | 39 - 29
JANM38510/10101BGA		FSC | 39 - 30
JANM38510/10101BGB		none | 39 - 31
JANM38510/10101BGC		FSC | 39 - 32
JANM38510/10101BHA		none | 39 - 33
JANM38510/10101BHB		none | 39 - 34
JANM38510/10101BHC		FSC | 39 - 35
JANM38510/10101CAA		none | 39 - 36
JANM38510/10101CAB		none | 39 - 37
JANM38510/10101CAC		none | 39 - 38
JANM38510/10101CBA		none | 39 - 39

TYPE No.	MFRS	Pg&Line
JANM38510/10101CBB		none | 39 - 40
JANM38510/10101CBC		none | 39 - 41
JANM38510/10101CCA		none | 39 - 42
JANM38510/10101CCB		FSC | 39 - 43
JANM38510/10101CCC		none | 39 - 44
JANM38510/10101CDA		none | 39 - 45
JANM38510/10101CDB		none | 39 - 46
JANM38510/10101CDC		none | 39 - 47
JANM38510/10101CGA		FSC | 39 - 48
JANM38510/10101CGB		none | 39 - 49
JANM38510/10101CGC		FSC | 39 - 50
JANM38510/10101CHA		none | 39 - 51
JANM38510/10101CHB		FSC | 39 - 52
JANM38510/10101CHC		FSC | 39 - 53
JANM38510/10102AAA		none | 40 - 11
JANM38510/10102AAB		none | 40 - 12
JANM38510/10102AAC		none | 40 - 13
JANM38510/10102ABA		none | 40 - 14
JANM38510/10102ABB		none | 40 - 15
JANM38510/10102ABC		none | 40 - 16
JANM38510/10102ACA		none | 40 - 17
JANM38510/10102ACB		none | 40 - 18
JANM38510/10102ACC		none | 40 - 19
JANM38510/10102ADA		none | 40 - 20
JANM38510/10102ADB		none | 40 - 21
JANM38510/10102ADC		none | 40 - 22
JANM38510/10102AIA		none | 40 - 23
JANM38510/10102AIB		none | 40 - 24
JANM38510/10102AIC		none | 40 - 25
JANM38510/10102BAA		none | 40 - 26
JANM38510/10102BAB		none | 40 - 27
JANM38510/10102BAC		none | 40 - 28
JANM38510/10102BBA		none | 40 - 29
JANM38510/10102BBB		none | 40 - 30
JANM38510/10102BBC		none | 40 - 31
JANM38510/10102BCA		none | 40 - 32
JANM38510/10102BCB		FSC | 40 - 33
JANM38510/10102BCC		none | 40 - 34
JANM38510/10102BDA		none | 40 - 35
JANM38510/10102BDB		none | 40 - 36
JANM38510/10102BDC		none | 40 - 37
JANM38510/10102BIA		FSC | 40 - 38
JANM38510/10102BIB		none | 40 - 39
JANM38510/10102BIC		FSC | 40 - 40
JANM38510/10102CAA		none | 40 - 41
JANM38510/10102CAB		none | 40 - 42
JANM38510/10102CAC		none | 40 - 43
JANM38510/10102CBA		none | 40 - 44
JANM38510/10102CBB		none | 40 - 45
JANM38510/10102CBC		none | 40 - 46
JANM38510/10102CCA		none | 40 - 47
JANM38510/10102CCB		FSC | 40 - 48
JANM38510/10102CCC		none | 40 - 49
JANM38510/10102CDA		none | 40 - 50
JANM38510/10102CDB		none | 40 - 51
JANM38510/10102CDC		none | 40 - 52
JANM38510/10102CIA		FSC | 40 - 53

TYPE No.	MFRS	Pg&Line
JANM38510/10102CIB		none | 40 - 54
JANM38510/10102CIC		FSC | 40 - 55
JANM38510/10103ACA		none | 37 - 72
JANM38510/10103ACB		none | 37 - 73
JANM38510/10103ACC		none | 37 - 74
JANM38510/10103AGA		none | 37 - 75
JANM38510/10103AGB		none | 37 - 76
JANM38510/10103AGC		none | 37 - 77
JANM38510/10103AHA		none | 37 - 78
JANM38510/10103AHB		none | 37 - 79
JANM38510/10103AHC		none | 37 - 80
JANM38510/10103BCA		none | 37 - 81
JANM38510/10103BCB		none | 37 - 82
JANM38510/10103BCC		none | 37 - 83
JANM38510/10103BGA		none | 37 - 84
JANM38510/10103BGB		none | 37 - 85
JANM38510/10103BGC		none | 37 - 86
JANM38510/10103BHA		none | 37 - 87
JANM38510/10103BHB		none | 35 - 25
JANM38510/10103BHC		none | 37 - 88
JANM38510/10103CCA		none | 37 - 89
JANM38510/10103CCB		none | 37 - 90
JANM38510/10103CCC		none | 38 - 1
JANM38510/10103CGA		none | 38 - 2
JANM38510/10103CGB		none | 38 - 3
JANM38510/10103CGC		none | 38 - 4
JANM38510/10103CHA		none | 38 - 5
JANM38510/10103CHB		none | 38 - 6
JANM38510/10103CHC		none | 38 - 7
JANM38510/10104ACA		none | 35-108
JANM38510/10104ACB		none | 36 - 1
JANM38510/10104ACC		none | 36 - 2
JANM38510/10104AGA		none | 36 - 3
JANM38510/10104AGB		none | 36 - 4
JANM38510/10104AGC		none | 36 - 5
JANM38510/10104AHA		none | 36 - 6
JANM38510/10104AHB		none | 36 - 7
JANM38510/10104AHC		none | 36 - 8
JANM38510/10104BCA		none | 36 - 9
JANM38510/10104BCB		none | 36 - 10
JANM38510/10104BCC		none | 36 - 11
JANM38510/10104BGA		none | 36 - 12
JANM38510/10104BGB		none | 36 - 13
JANM38510/10104BGC		none | 36 - 14
JANM38510/10104BHA		none | 36 - 15
JANM38510/10104BHB		none | 36 - 16
JANM38510/10104BHC		none | 36 - 17
JANM38510/10104CCA		none | 36 - 18
JANM38510/10104CCB		none | 36 - 19
JANM38510/10104CCC		none | 36 - 20
JANM38510/10104CGA		none | 36 - 21
JANM38510/10104CGB		none | 36 - 22
JANM38510/10104CGC		none | 36 - 23
JANM38510/10104CHA		none | 36 - 24
JANM38510/10104CHB		none | 36 - 25
JANM38510/10104CHC		none | 36 - 26
JANM38510/10201AAA		none | 55 - 98

♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

2. TYPE No. CROSS INDEX

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	Pg&Line
JANM38510/10201AAB	none	55 - 99
JANM38510/10201AAC	none	56 - 1
JANM38510/10201ABA	none	56 - 2
JANM38510/10201ABB	none	56 - 3
JANM38510/10201ABC	none	56 - 4
JANM38510/10201ACA	none	57 - 7
JANM38510/10201ACB	none	57 - 8
JANM38510/10201ACC	none	57 - 9
JANM38510/10201ADA	none	56 - 5
JANM38510/10201ADB	none	56 - 6
JANM38510/10201ADC	none	56 - 7
JANM38510/10201AHA	none	56 - 8
JANM38510/10201AHB	none	56 - 9
JANM38510/10201AHC	none	56 - 10
JANM38510/10201AIA	none	55 - 78
JANM38510/10201AIB	none	55 - 79
JANM38510/10201AIC	none	55 - 80
JANM38510/10201BAA	none	56 - 11
JANM38510/10201BAB	none	56 - 12
JANM38510/10201BAC	MOTA	56 - 13
JANM38510/10201BBA	none	56 - 14
JANM38510/10201BBB	none	56 - 15
JANM38510/10201BBC	none	56 - 16
JANM38510/10201BCA	none	57 - 10
JANM38510/10201BCB	FSC MOTA	57 - 11
JANM38510/10201BCC	MOTA	57 - 12
JANM38510/10201BDA	none	56 - 17
JANM38510/10201BDB	none	56 - 18
JANM38510/10201BDC	none	56 - 19
JANM38510/10201BHA	MOTA	56 - 20
JANM38510/10201BHB	MOTA	56 - 21
JANM38510/10201BHC	none	56 - 22
JANM38510/10201BIA	FSC MOTA	55 - 81
JANM38510/10201BIB	none	55 - 82
JANM38510/10201BIC	FSC MOTA	55 - 83
JANM38510/10201CAA	none	56 - 23
JANM38510/10201CAB	none	56 - 24
JANM38510/10201CAC	none	56 - 25
JANM38510/10201CBA	none	56 - 26
JANM38510/10201CBB	none	56 - 27
JANM38510/10201CBC	none	56 - 28
JANM38510/10201CCA	MOTA	57 - 13
JANM38510/10201CCB	FSC MOTA	57 - 14
JANM38510/10201CCC	MOTA	57 - 15
JANM38510/10201CDA	none	56 - 29
JANM38510/10201CDB	none	56 - 30
JANM38510/10201CDC	none	56 - 31
JANM38510/10201CHA	MOTA	56 - 32
JANM38510/10201CHB	none	56 - 33
JANM38510/10201CHC	none	56 - 34
JANM38510/10201CIA	FSC MOTA	55 - 84
JANM38510/10201CIB	none	55 - 85
JANM38510/10201CIC	FSC MOTA	55 - 86
JANM38510/10301ACA	none	59 - 88
JANM38510/10301ACB	none	59 - 89
JANM38510/10301ACC	none	59 - 90
JANM38510/10301AGA	none	59 - 91
JANM38510/10301AGB	none	59 - 92
JANM38510/10301AGC	none	59 - 93
JANM38510/10301AHA	none	59 - 94
JANM38510/10301AHB	none	59 - 95
JANM38510/10301AHC	none	59 - 96
JANM38510/10301BCA	none	59 - 97
JANM38510/10301BCB	FSC	59 - 98
JANM38510/10301BCC	none	60 - 1
JANM38510/10301BGA	FSC	60 - 2
JANM38510/10301BGB	none	60 - 3
JANM38510/10301BGC	FSC	60 - 4
JANM38510/10301BHA	none	60 - 5
JANM38510/10301BHB	FSC	60 - 6
JANM38510/10301BHC	FSC	60 - 7
JANM38510/10301CCA	none	60 - 8
JANM38510/10301CCB	FSC	60 - 9
JANM38510/10301CCC	none	60 - 10
JANM38510/10301CGA	FSC	60 - 11
JANM38510/10301CGB	none	60 - 12
JANM38510/10301CGC	FSC	60 - 13
JANM38510/10301CHA	none	60 - 14
JANM38510/10301CHB	FSC	60 - 15
JANM38510/10301CHC	FSC	60 - 16
JANM38510/10302ACA	none	61 - 53
JANM38510/10302ACB	none	61 - 54
JANM38510/10302ACC	none	61 - 55
JANM38510/10302AHA	none	61 - 56
JANM38510/10302AHB	none	61 - 57
JANM38510/10302AHC	none	61 - 58
JANM38510/10302AIA	none	61 - 59
JANM38510/10302AIB	none	61 - 60
JANM38510/10302AIC	none	61 - 61
JANM38510/10302BCA	none	61 - 62
JANM38510/10302BCB	none	61 - 63
JANM38510/10302BCC	none	61 - 64
JANM38510/10302BHA	none	61 - 65
JANM38510/10302BHB	none	61 - 66
JANM38510/10302BHC	none	61 - 67
JANM38510/10302BIA	none	61 - 68
JANM38510/10302BIB	none	61 - 69
JANM38510/10302BIC	none	61 - 70
JANM38510/10302CCA	none	61 - 71
JANM38510/10302CCB	none	61 - 72
JANM38510/10302CCC	none	61 - 73
JANM38510/10302CHA	none	61 - 74
JANM38510/10302CHB	none	61 - 75
JANM38510/10302CHC	none	61 - 76
JANM38510/10302CIA	none	61 - 77
JANM38510/10302CIB	none	61 - 78
JANM38510/10302CIC	none	61 - 79
JANM38510/10303AAA	none	62 - 73
JANM38510/10303AAB	none	62 - 74
JANM38510/10303AAC	none	62 - 75
JANM38510/10303AGA	none	62 - 76
JANM38510/10303AGB	none	62 - 77
JANM38510/10303AGC	none	62 - 78
JANM38510/10303BAA	none	62 - 79
JANM38510/10303BAB	none	62 - 80
JANM38510/10303BAC	none	62 - 81
JANM38510/10303BGA	none	62 - 82
JANM38510/10303BGB	none	62 - 83
JANM38510/10303BGC	none	62 - 84
JANM38510/10303CAA	none	62 - 85
JANM38510/10303CAB	none	62 - 86
JANM38510/10303CAC	none	62 - 87
JANM38510/10303CGA	none	62 - 88
JANM38510/10303CGB	none	62 - 89
JANM38510/10303CGC	none	62 - 90
JANM38510/10304AGA	none	63-101
JANM38510/10304AGB	none	63-102
JANM38510/10304AGC	none	63-103
JANM38510/10304AHA	none	63-104
JANM38510/10304AHB	none	63-105
JANM38510/10304AHC	none	64 - 1
JANM38510/10304BGA	none	64 - 2
JANM38510/10304BGB	none	64 - 3
JANM38510/10304BGC	none	64 - 4
JANM38510/10304BHA	none	64 - 5
JANM38510/10304BHB	none	64 - 6
JANM38510/10304BHC	none	64 - 7
JANM38510/10304CGA	none	64 - 8
JANM38510/10304CGB	none	64 - 9
JANM38510/10304CGC	none	64 - 10
JANM38510/10304CHA	none	64 - 11
JANM38510/10304CHB	none	64 - 12
JANM38510/10304CHC	none	64 - 13
JANM38510/10601ACA	none	65 - 93
JANM38510/10601ACB	none	65 - 94
JANM38510/10601ACC	none	65 - 95
JANM38510/10601AGA	none	65 - 96
JANM38510/10601AGB	none	65 - 97
JANM38510/10601AGC	none	65 - 98
JANM38510/10601AHA	none	65 - 99
JANM38510/10601AHB	none	65-100
JANM38510/10601AHC	none	65-101
JANM38510/10601BCA	none	66 - 1
JANM38510/10601BCB	none	66 - 2
JANM38510/10601BCC	none	66 - 3
JANM38510/10601BGA	none	66 - 4
JANM38510/10601BGB	none	66 - 5
JANM38510/10601BGC	none	66 - 6
JANM38510/10601BHA	none	66 - 7
JANM38510/10601BHB	none	66 - 8
JANM38510/10601BHC	none	66 - 9
JANM38510/10601CCA	none	66 - 10
JANM38510/10601CCB	none	66 - 11
JANM38510/10601CCC	none	66 - 12
JANM38510/10601CGA	none	66 - 13
JANM38510/10601CGB	none	66 - 14
JANM38510/10601CGC	none	66 - 15
JANM38510/10601CHA	none	66 - 16
JANM38510/10601CHB	none	66 - 17
JANM38510/10601CHC	none	66 - 18
JANM38510/10602ACA	none	66 - 19
JANM38510/10602ACB	none	66 - 20
JANM38510/10602ACC	none	66 - 21
JANM38510/10602AGA	none	66 - 22
JANM38510/10602AGB	none	66 - 23
JANM38510/10602AGC	none	66 - 24
JANM38510/10602AHA	none	66 - 25
JANM38510/10602AHB	none	66 - 26
JANM38510/10602AHC	none	66 - 27
JANM38510/10602BCA	none	66 - 28
JANM38510/10602BCB	none	66 - 29
JANM38510/10602BCC	none	66 - 30
JANM38510/10602BGA	none	66 - 31
JANM38510/10602BGB	none	66 - 32
JANM38510/10602BGC	none	66 - 33
JANM38510/10602BHA	none	66 - 34
JANM38510/10602BHB	none	66 - 35
JANM38510/10602BHC	none	66 - 36
JANM38510/10602CCA	none	66 - 37
JANM38510/10602CCB	none	66 - 38
JANM38510/10602CCC	none	66 - 39
JANM38510/10602CGA	none	66 - 40
JANM38510/10602CGB	none	66 - 41
JANM38510/10602CGC	none	66 - 42
JANM38510/10602CHA	none	66 - 43
JANM38510/10602CHB	none	66 - 44
JANM38510/10602CHC	none	66 - 45
JANM38510/10701AXA	none	50 - 15
JANM38510/10701AXB	none	50 - 16
JANM38510/10701AXC	none	50 - 17
JANM38510/10701AYA	none	50 - 26
JANM38510/10701AYB	none	50 - 27
JANM38510/10701AYC	none	50 - 28
JANM38510/10701BXA	none	50 - 18
JANM38510/10701BXB	none	50 - 19
JANM38510/10701BXC	none	50 - 20
JANM38510/10701BYA	none	50 - 29
JANM38510/10701BYB	none	50 - 30
JANM38510/10701BYC	none	50 - 31
JANM38510/10701CXA	none	50 - 21
JANM38510/10701CXB	none	50 - 22
JANM38510/10701CXC	none	50 - 23
JANM38510/10701CYA	none	50 - 32
JANM38510/10701CYB	none	50 - 33
JANM38510/10701CYC	none	50 - 34
M51709T	MITJ	28 - 60
MA20	♦NEC	41 - 38
MA30	♦NEC	41 - 41
MA32	♦NEC	41 - 40
MC1303L	♦MOTA	45 - 28
MC1304P	♦MOTA SPR	83 - 7
MC1305P	♦MOTA SPR	83 - 8
MC1306P	♦MOTA	44 - 31
MC1307P	♦MOTA SPR	82 - 59
MC1307PQ	SPR	83 - 9
MC1310P	♦MOTA	83 - 10
MC1312P	♦MOTA	82 - 12
MC1313P	♦MOTA	82 - 13
MC1324P	♦MOTA SPR	81 - 53
MC1326P	♦MOTA	81 - 54
MC1326PQ	♦MOTA	81 - 55
MC1327P	♦MOTA	81 - 56
MC1327PQ	♦MOTA	81 - 57
MC1328G	♦MOTA	81 - 58
MC1328P	♦MOTA SPR	81 - 59
MC1328PQ	♦MOTA	81 - 60
MC1329P	♦MOTA	81 - 61
MC1330P	♦MOTA	83 - 43
MC1331P	♦MOTA	81 - 62
MC1339P	♦MOTA	82 - 14
MC1344P	♦MOTA	80 - 88
MC1349P	♦MOTA	46 -100
MC1350P	♦MOTA	46 - 73
MC1351P	♦MOTA	80 - 89
MC1351PQ	♦MOTA	80 - 90
MC1352P	♦MOTA	46 - 80
MC1352PQ	♦MOTA	46 - 81
MC1353P	♦MOTA	46 - 82
MC1353PQ	♦MOTA	46 - 83
MC1355P	♦MOTA	82 - 60
MC1355PQ	♦MOTA	82 - 61
MC1357P	♦MOTA	82 - 62
MC1357PQ	♦MOTA	82 - 63
MC1358P	♦MOTA	82 - 64
MC1358PQ	♦MOTA	82 - 65
MC1364G	♦MOTA	83 - 78
MC1364P	♦MOTA SPR	83 - 79
MC1370P	♦MOTA	81 - 63
MC1371P	♦MOTA SPR	81 - 64
MC1375P	♦MOTA	82 - 66
MC1385P	♦MOTA	44 - 78
MC1391P	♦MOTA	80 - 91
MC1394P	♦MOTA	80 - 92
MC1398P	♦MOTA SPR	81 - 65
MC1407L	♦MOTA	33 - 27 64 - 44
MC1410G	♦MOTA	48 - 72
MC1414F	♦MOTA	62 - 31
MC1414L	♦MOTA	62 - 32
MC1414P	♦MOTA	62 - 33
MC1420F	♦MOTA	16 - 87
MC1420G	♦MOTA	16 - 88
MC1430F	♦MOTA	16 - 71
MC1430G	♦MOTA	16 - 72
MC1430P	♦MOTA	16 - 73
MC1431F	♦MOTA	16 - 76
MC1431G	♦MOTA	16 - 77
MC1431P	♦MOTA	16 - 78
MC1433F	♦MOTA	30 - 61
MC1433G	♦MOTA	30 - 62
MC1433L	♦MOTA	30 - 63
MC1433P	♦MOTA	30 - 64
MC1435F	♦MOTA	16 - 82
MC1435G	♦MOTA	16 - 83
MC1435L	♦MOTA	16 - 84
MC1436CG	♦MOTA	41 - 67
MC1436G	♦MOTA	41 - 69
MC1437L	♦MOTA	30 - 6
MC1437P	♦MOTA	30 - 7
MC1438R	♦MOTA	65 - 62
MC1439G	♦MOTA	29 - 6
MC1439L	♦MOTA	29 - 7
MC1439P1	♦MOTA	29 - 8
MC1439P2	♦MOTA	29 - 9
MC1439P	♦MOTA	29 - 5
MC1445F	♦MOTA	48 - 40 83 - 44
MC1445G	♦MOTA	48 - 41 83 - 45
MC1445L	♦MOTA	48 - 42 83 - 46
MC1454G	♦MOTA	45 - 4
MC1456CG	♦MOTA	24 - 99
MC1456CL	♦MOTA	24 -100
MC1456G	♦MOTA	22 - 53
MC1456L	♦MOTA	22 - 54
MC1458CG	FSC ♦MOTA	30 - 68
MC1458CL	♦MOTA	30 - 69
MC1458CP1	♦MOTA	30 - 70
MC1458CP2	♦MOTA	30 - 71
MC1458CPI	FSC	30 - 72
MC1458G	FSC ♦MOTA	27 - 52
MC1458L	♦MOTA	27 - 53
MC1458P1	♦MOTA	27 - 54
MC1458P2	♦MOTA	27 - 55
MC1458PI	FSC	27 - 56
MC1460G	♦MOTA	52 - 4
MC1460R	♦MOTA	52 - 5
MC1461G	♦MOTA	55 - 9
MC1461R	♦MOTA	55 - 10
MC1463G	♦MOTA	55 - 43
MC1463R	♦MOTA	55 - 44
MC1466L	♦MOTA	50 - 4 76 - 96
MC1468G	♦MOTA	53 - 95
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MC1468R	♦MOTA	54 - 6
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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S5748T	♦SIC	20-48	SFC2054EC	THCF	42-58	SFC2824RC	THCF	57-94	SG710T	SGL	60-30	SG4250T	SGL	16-39
S5748V	SIC	20-49	SFC2100M	THCF	54-107	SFC2861C	♦THCF	17-31	SG711CN	♦SGL	60-93	SG4501N	♦SGL	54-92
SAA570	♦PLSB	82-69	SFC2101A	THCF	38-60	SFC2861DC	♦THCF	17-32	SG711CT	♦SGL	60-92	SG4501T	♦SGL	54-93
SAA661BE	♦PLSB	82-70	SFC2101APM	THCF	38-61	SFC2861DT	♦THCF	17-33	SG711T	♦SGL	60-49	SG7805CK	SGL	50-87
SAA661BQ	♦PLSB	82-71	SFC2104M	♦THCF	57-56	SFC2861M	♦THCF	17-34	SG723CN	♦SGL	55-70	SG7805CT	SGL	50-88
SAA700B	♦PLSB	49-23	SFC2105M	♦THCF	57-84	SFC2861PM	♦THCF	17-35	SG723CT	♦SGL	55-76	SG7805K	SGL	50-89
SAS560	SIEG	79-40	SFC2107M	THCF	38-62	SFC2861T	♦THCF	17-36	SG723T	♦SGL	55-77	SG7805T	SGL	50-90
SAS570	SIEG	79-41	SFC2108M	THCF	35-22	SG100T	♦SGL	54-108	SG733CN	♦SGL	49-1	SG7806CK	SGL	51-56
SBA550B	♦PLSB	80-93	SFC2109M	THCF	50-53	SG101AT	SGL	38-63	SG733CT	♦SGL	49-2	SG7806CT	SGL	51-57
SBA750AE	PLSB	82-72	SFC2109RM	THCF	50-54	SG101T	SGL	37-61	SG733T	♦SGL	49-3	SG7806K	SGL	51-58
SBA750AQ	PLSB	82-73	SFC2110M	THCF	34-24	SG102T	♦SGL	27-8	SG741CM	SGL	21-44	SG7806T	SGL	51-59
SBA750BE	♦PLSB	82-74	SFC2111M	THCF	64-48	SG104F	SGL	57-58	SG741CN	♦SGL	21-45	SG7808CK	SGL	51-95
SBA750BQ	♦PLSB	82-75	SFC2118M	THCF	30-19	SG104T	SGL	57-59	SG741CT	♦SGL	20-50	SG7808CT	SGL	51-96
SD25-2100	MIA	77-13	SFC2150RM	THCF	44-48	SG105T	♦SGL	57-86	SG741SCM	♦SGL	22-8	SG7808K	SGL	51-97
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SE5D250	NPP	73-64	SFC2205	♦THCF	57-85	SG109T	SGL	50-68	SG747D	SGL	20-52	SG7812T	SGL	53-29
SE5D250E	NPP	73-65	SFC2207	THCF	38-91	SG110T	♦SGL	34-87	SG748CM	SGL	21-47	SG7815CK	SGL	54-29
SE5S250	NPP	73-66	SFC2208	THCF	35-23	SG111M	♦SGL	64-36	SG748CT	SGL	21-48	SG7815CT	SGL	54-30
SE5S250E	NPP	73-67	SFC2209	THCF	50-55	SG111T	♦SGL	64-37	SG748T	SGL	20-53	SG7815K	SGL	54-31
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SE12D200E	♦NPP	73-79	SFC2309	THCF	50-57	SG139AJ	♦SGL	59-43	SG1401N	♦SGL	48-48	SI1010YP	SAKJ	45-56
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SE24S100	NPP	73-100	SFC2709PM	THCF	26-87	SG220-05K	SGL	50-45	SG1501T	♦SGL	53-93	SI3554M	SAKJ	51-14
SE24S100E	NPP	73-101	SFC2709PT	THCF	28-56	SG220-05T	SGL	50-39	SG1502D	SGL	53-109	SI3560M	SAKJ	51-12
SE28S100	NPP	73-102	SFC2709T	THCF	28-57	SG220-5.2K	SGL	51-39	SG1536T	SGL	41-63	SK3022-RT	RCA	80-94
SE28S100E	NPP	73-103	SFC2710C	THCF	59-62	SG220-5.2T	SGL	51-33	SG1556T	SGL	18-107	SK3023-RT	RCA	80-95
SE501A	SIC	48-12	SFC2710E	THCF	60-79	SG220-12K	SGL	53-35	SG1558T	SGL	26-42	SK3070-RT	RCA	83-80
SE501G%	♦SIC	48-7	SFC2710EC	THCF	60-80	SG220-12T	SGL	53-21	SG1568J	SGL	53-110	SK3071-RT	RCA	82-15
SE501K%	♦SIC	48-8	SFC2710EM	THCF	60-28	SG220-15K	SGL	54-72	SG1568T	SGL	53-100	SK3072-RT	RCA	82-16
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SE510A☑	♦SIC	46-70	SFC2710PC	THCF	60-81	SG224J	SGL	16-12	SG1596T	SGL	83-63	SK3074-RT	RCA	81-67
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SE510J#1	SIC	46-43	SFC2711EC	THCF	62-7	SG239N	♦SGL	59-8	SG2118T	SGL	35-52	SK3078-RT	RCA	83-11
SE510J#2	SIC	46-49	SFC2711EM	THCF	61-31	SG300N	♦SGL	52-106	SG2250M	♦SGL	17-102	SK3101-RT	RCA	80-96
SE511B	♦SIC	42-23	SFC2711M	THCF	59-66	SG300T	♦SGL	52-107	SG2250T	♦SGL	17-103	SK3102-RT	RCA	80-97
		46-44	SFC2711PC	THCF	62-8	SG301AM	SGL	35-24	SG2401N	♦SGL	48-50	SK3514-RT	RCA	33-28
SE511R	♦SIC	42-24	SFC2711PM	THCF	61-32	SG301AN	SGL	23-55	SG2401T	♦SGL	48-51	SL414A	♦PLSB	45-6
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SE526G	♦SIC	59-16	SFC2741DC	THCF	19-82	SG305N	♦SGL	55-15	SG2501AT	SGL	54-21	SL501B	♦PLSB	46-28
SE526K	♦SIC	59-17	SFC2741DT	THCF	21-42	SG305T	♦SGL	55-22	SG2501D	♦SGL	54-1	SL502A	♦PLSB	46-33
SE526Q	SIC	59-18	SFC2741EC	THCF	19-83	SG307M	SGL	23-59	SG2501T	♦SGL	53-94	SL502B	♦PLSB	46-29
SE527K	SIC	62-58	SFC2741EM	THCF	19-73	SG307N	SGL	23-60	SG2502D	SGL	54-2	SL503A	♦PLSB	46-56
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SE540L	♦SIC	45-80	SFC2741PM	THCF	19-75	SG308M	SGL	34-41	SG3081N	SGL	78-17	SL511C	♦PLSB	46-13
SE550G	SIC	55-26	SFC2748C	THCF	19-84	SG308T	♦SGL	18-28	SG3082J	SGL	78-18	SL521A	♦PLSB	48-15
SE550K	SIC	55-27	SFC2748DC	THCF	19-85	SG309K	SGL	50-86	SG3082N	SGL	78-19	SL521B	♦PLSB	48-13
SE550L	SIC	57-70	SFC2748M	THCF	19-86	SG309T	SGL	50-70	SG3083J	SGL	78-20	SL521C	♦PLSB	48-18
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SE566T	♦SIC	67-88	SFC2748PM	THCF	19-88	SG311M	♦SGL	64-40	SG3118AT	SGL	35-103	SL551A	♦PLSB	46-34
SE567T	♦SIC	79-42	SFC2761C	♦THCF	26-24	SG311T	♦SGL	64-41	SG3118T	SGL	34-42	SL551B	♦PLSB	46-30
SE592G	SIC	48-109	SFC2761DC	♦THCF	26-25	SG318J	SGL	31-81	SG3183AJ	SGL	78-22	SL552A	♦PLSB	46-35
SE592K	SIC	48-110	SFC2761M	THCF	34-74	SG318M	SGL	31-82	SG3183AN	SGL	78-23	SL552B	♦PLSB	46-31
SE902	♦NPP	73-104	SFC2761PM	THCF	34-75	SG318T	SGL	31-83	SG3183J	SGL	78-24	SL553A	♦PLSB	46-57
SE902A	♦NPP	73-105	SFC2761T	THCF	34-76	SG320-05K	SGL	50-46	SG3183N	SGL	78-25	SL553B	♦PLSB	46-55
SE902E	♦NPP	73-106	SFC2776C	THCF	34-30	SG320-05T	SGL	50-40	SG3217T	SGL	21-49	SL571A	♦PLSB	48-16
SE902I	♦NPP	73-107	SFC2776DC	THCF	34-31	SG320-5.2K	SGL	51-40	SG3250M	♦SGL	17-104	SL571B	♦PLSB	48-14
SE903	♦NPP	73-108	SFC2776EC	THCF	34-32	SG320-5.2T	SGL	51-34	SG3250T	♦SGL	17-105	SL571C	♦PLSB	48-19
SE903A	♦NPP	73-109	SFC2776EM	THCF	34-27	SG320-12K	SGL	53-36	SG3401N	♦SGL	48-52	SL610C	♦PLSB	46-7
SE903E	♦NPP	73-110	SFC2776M	THCF	34-28	SG320-12T	SGL	53-22	SG3401T	♦SGL	48-53	SL611C	♦PLSB	46-8
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SE904E	♦NPP	74-3	SFC2790M	THCF	44-37	SG324J	SGL	16-15	SG3402T	♦SGL	48-36	SL621C	♦PLSB	83-98
SE904I	♦NPP	74-4	SFC2805EC	THCF	50-59	SG324N	SGL	16-16			67-20	SL622C	♦PLSB	82-17
SE905	♦NPP	74-5	SFC2805RC	THCF	50-60	SG339AJ	♦SGL	59-46	SG3501AD	SGL	54-4	SL623C	♦PLSB	82-78
SE905A	♦NPP	74-6	SFC2806EC	THCF	51-47	SG339AN	♦SGL	59-47	SG3501AT	SGL	54-5	SL630C	♦PLSB	44-72
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SE915A	♦NPP	74-9	SFC2808RC	THCF	51-87	SG555CM	♦SGL	79-43	SG3502D	SGL	53-87	SL641C	♦PLSB	83-65
SE915E	♦NPP	74-10	SFC2812EC	THCF	53-7	SG555CT	♦SGL	79-44	SG3502N	SGL	53-88	SL645C	♦PLSB	79-49
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

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UC4741D	SOD	20-87
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ULN2139H	♦SPR	28-65
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ULN2151G	♦SPR	21-108
ULN2151H	♦SPR	21-109
ULN2151M	♦SPR	21-110
ULN2156D	♦SPR	22-58
ULN2156G	♦SPR	22-59
ULN2156H	♦SPR	22-60
ULN2156M	♦SPR	22-61
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ULN2157H	♦SPR	22-2
ULN2157K	♦SPR	22-3
ULN2158D	♦SPR	20-92
ULN2158G	♦SPR	20-93
ULN2158H	♦SPR	20-94
ULN2158M	♦SPR	20-95
ULN2159D	♦SPR	20-96
ULN2159G	♦SPR	20-97
ULN2159H	♦SPR	19-100
ULN2159M	♦SPR	20-98
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ULN2165N	♦SPR	81-7
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ULN2171G	♦SPR	23-93
ULN2171H	♦SPR	23-94
ULN2171M	♦SPR	23-95
ULN2172D	♦SPR	23-96
ULN2172G	♦SPR	23-97
ULN2172H	♦SPR	23-98
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ULN2173D	♦SPR	19-2
ULN2173G	♦SPR	19-3
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ULS2151M	♦SPR	21-97
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ULS2156G	♦SPR	18-109
ULS2156H	♦SPR	18-110
ULS2156M	♦SPR	19-1
ULS2157A	♦SPR	21-98
ULS2157H	♦SPR	21-99
ULS2157K	♦SPR	21-100
ULS2158D	♦SPR	19-104
ULS2158G	♦SPR	19-105
ULS2158H	♦SPR	19-106
ULS2158M	♦SPR	19-107
ULS2159D	♦SPR	19-38
ULS2159G	♦SPR	19-39
ULS2159H	♦SPR	19-40
ULS2159M	♦SPR	19-41
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ULS2172H	♦SPR	22-43
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ULS2173H	♦SPR	18-98
ULS2173M	♦SPR	18-99
ULS2174D	♦SPR	18-92
ULS2174G	♦SPR	18-93
ULS2174H	♦SPR	18-94
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Z15AT65DP	♦ZEL	74-39
Z15AT100DP	♦ZEL	74-40
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Z15BT65DP	♦ZEL	74-42
Z15BT100DP	♦ZEL	74-43
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ZA801M1	♦ZEL	23-80
ZA801M2	♦ZEL	23-6
ZA801M3	♦ZEL	22-75
ZA802M1	♦ZEL	23-81
ZA804M1	♦ZEL	23-82
ZA804M2	♦ZEL	23-7
ZA903M1	♦ZEL	22-71
ZA903M2	♦ZEL	22-68
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ZEL1-03	♦ZEL	26-11
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♦-Copy of mfr's data sheet may be ordered from D.A.T.A.

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP @25°C RATED SPECS [1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE [3] DRFT (V/°C)	[4] OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	ID4251	3.0	90u	5.0u†	3.0mΔ§	5.0n§	15n§	2.0	3.0M	1.0	10kØ	300kØ	100	100m†	70	5C	A123	
2	UC4251	3.0	90u	5.0u†	4.0mΔ	5.0n	15n	2.0	3.0M	1.0	10kØ	300kØ	100	100m†	70	5C	A123	TO99
3	ID4251C	3.0	110u	5.0u†	6.0mΔ§	10n§	30n§	2.0	3.0M	1.0	10kØ	300kØ	96	100m†	70	07	A123	
4	UC4251C	3.0	110u	5.0u†	7.5mΔ	15n	50n	2.0	3.0M	1.0	10kØ	300kØ	96	100m†	70	07	A123	TO99
5#	TCA520A	5.0 §	5.0mt		5.0m§	30n§	100n§	5.4 §		5.0			89 †	400m†		27	A237	MP267a
6#	TCA520	5.0 §	5.0mt		6.0m§	30n§	100n§	5.4 §		5.0			89 †	400m†		27	A237	TO99
7#	TCA520B	5.0	5.0mt		6.0m§	30n§	100n§	1.4 §		200m	5.0kØ		92	300m†		27	A237	MP189b
8	LM124D	5.0	10m		5.0m§	30n§	300n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	5C	A222	MP148
9	LM124F	5.0	10m		5.0m§	30n§	300n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	5C	A222	FP29
10	LM224D	5.0	10m		5.0m§	30n§	300n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	28	A222	MP148
11▼	SG124J	5.0	10m		5.0m§	30n§	300n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	5C	A222	TO116
12▼	SG224J	5.0	10m		5.0m§	30n§	300n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	28	A222	TO116
13	LM324D	5.0	10m		7.0m§	50n§	500n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	07	A222	MP148
14	LM324N	5.0	10m		7.0m§	50n§	500n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	07	A222	MP39
15▼	SG324J	5.0	10m		7.0m§	50n§	500n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	07	A222	TO116
16▼	SG324N	5.0	10m		7.0m§	50n§	500n§	1.5 §		1.5	2.0kØ	1.0MØ	100 †	500m	85 †	07	A222	MP39a
17	153K	5.4	378u	2.0u	250u§	3.0n	3.0n§	2.0	1.0M	2.0	2.0m	150ktØ	94	20m	94	‡6		MP5ac
18	153J	5.4	378u	5.0u	1.0m§	3.0n§	3.0n§	2.0	1.0M	2.0	2.0m	150ktØ	94	20m	94	‡6		MP5ac
19	1006	5.4	1.0m	50u§	1.0m		50p§	1.0	100Gt	3.0	1.0m	600kØt	80	500m	60	28		MP5c
20	MC1776G	6.0	120u		6.0m	10n	20n	15	50Mt	4.0	75kØ		94	30mt	70	5C	A187	TO99
21	MC1776CG	6.0	120u		7.5m	10n	20n	15	50Mt	4.0	75kØ		88	30mt	70	07	A187	TO99
22▼	HA2A2720#1†	6.0	1.0mt		5.0m	20n	40n		5.0Mt	4.0	4.0mt		88	700m	74	5C	A249	TO99
23▼	HA2A2725#1†	6.0	10mt		7.0m	20n	40n		5.0Mt	4.0	4.0mt		88	700m	74	07	A249	TO99
24	1404-01	9.0	675u	10u	1.0m§Δ	7.0n§	30n§	8.0	4.0M	6.0	2.0m	100kØ	87	300n	93	28		
25	1404	9.0	675u	20u	5.0m§Δ	7.0n§	30n§	8.0	4.0M	6.0	2.0m	100kØ	87	300n	93	28		
26▼	SN52702AFA#2	9.0 §	30m	15uØ	4.0m	1.5uØ	7.5uØ	2.0 §	22k	5.0	100kØ		56	1.7 †	80	5C	A015	FP2t
27▼	SN52702AJ#2	9.0 §	30m	15uØ	4.0m	1.5uØ	7.5nØ	2.0 §	22k	5.0	100kØ		56	1.7 †	80	5C	A015	TO116
28▼	SN52702AL#2	9.0 §	30m	15uØ	4.0m	1.5uØ	7.5uØ	2.0 §	22k	5.0	100kØ		56	1.7 †	80	5C	A015	TO99
29▼	SN52702FA#2	9.0 §	35m	5.0uØ	6.0m	3.0uØ	14uØ	2.0 §	12k	5.0	100kØ		52	1.7 †	70	5C	A015	FP2t
30▼	SN52702J#2	9.0 §	35m	5.0uØ	6.0m	3.0uØ	14uØ	2.0 §	12k	5.0	100kØ		52	1.7 †	70	5C	A015	TO116
31▼	SN52702L#2	9.0 §	35m	5.0uØ	6.0m	3.0uØ	14uØ	2.0 §	12k	5.0	100kØ		52	1.7 †	70	5C	A015	TO99
32	CA6078AS	12	300u	6.0u§	3.5m§	2.5n§	12n§	28	1.7mt	28	10kØ	2.0kt	92	40mt	80	5C	A174d	
33	CA6078AT	12	300u	6.0u§	3.5m§	2.5n§	12n§	28	1.7Mt	28	10kØ	2.0kt	92	40mt	80	5C	A174d	Δ002AL
34	SG4250M	12 ♦	360u	5.0ut	4.0m	5.0n	15n	24	3.0M	22	10kØ	250kØ	100	160mt	70	5C	A199	TO99
35	ID4250	12 ♦	480u	5.0ut	3.0mΔ§	5.0n§	15n§	24	3.0M	22	1.2m	250ktØ	100	160mt	70	5C	A123	
36	4250	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	300kØ	100	100mt	70	5C	A123	TO99
37	ICL8021M	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	300kØ	100	100mt	70	07	A123	TO99
38	ICL8022M	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	300kØ	100	100mt	70	07	A123	MP40
39	SG4250T	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	250kØ	100	160mt	70	5C	A199	TO99
40	UC4250	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	300kØ	100	100mt	70	5C	A123	TO99
41	UC4252*	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	300kØ	100	100mt	70	5C	A123	MP40
42	UC4253*	12 ♦	480u	5.0ut	4.0mΔ	5.0n	15n	24	3.0M	22	10kØ	250ktØ	100	160mt	70	5C	A123	MP40
43	LH24250D	12	480u	10ut	4.0m	5.0n	15n	24	3.0M	20	10kØ	5.0 †	94	100mt	70	5C	A220a	MP230a
44	LH24250F	12	480u	10ut	4.0m	5.0n	15n	24	3.0M	20	10kØ	5.0 †	94	100mt	70	5C	A220a	FP28
45	4250C	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	10mt	70	07	A123	TO99
46	ICL8021C	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	100mt	70	07	A123	TO99
47	ICL8022C	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	100mt	70	07	A123	MP40
48	SG4250CM	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	160mt	70	07	A199	MP189a
49	SG4250CT	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	160mt	70	07	A199	TO99
50	UC4250C	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	100mt	70	07	A123	TO99
51	UC4252C*	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	100mt	70	07	A123	MP40
52	UC4253C*	12 ♦	600u	5.0ut	7.5mΔ	15n	50n	24	3.0M	22	10kØ	250ktØ	96	100mt	70	07	A123	MP40
53	LH24250CD	12	600u	10ut	7.5m	15n	50n	24	3.0M	20	10kØ	5.0 †	94	100mt	70	07	A220a	MP230a
54	LH24250CF	12	600u	10ut	7.5m	15n	50n	24	3.0M	20	10kØ	5.0 †	94	100mt	70	07	A220a	FP28
55	170	12	1.4mt	20u	Δ		50n§	3.0	1.0M	10 †	1.0mt	300k§t	100	300m	73 †	28		MP6g
56	CA3078S	12	1.5m		5.0m	40n	200n	11 §t	870kt			2.0kt	88	40mt	80	5C	Z122	
57	CA3078T	12	1.5m		5.0m	40n	200n	11 §t	870kt			2.0kt	88	40mt	80	07	Z122	Δ002AL
58#	TCA220*	12	12m		10m§	200n§†	2.0u§	9.9 §	25k	9.5	10kØ	5.0MØ	72	400mt	90 †	5C	A183	MP337d
59	CA3008	12	30mt		5.0m§	5.0u§	12u§	4.5 §t	10k	4.0	5.0kØ	200k	57		70	5C	A051	FP10
60	CA3010	12	30mt		5.0m§	5.0u§	12u§	4.5 §t	10k	4.0	5.0kØ	200k	57		70	5C	A051	CN18
61	CA3029	12	30mt		5.0m§	5.0u§	12u§	4.5 §t	10k	4.0	5.0kØ	200k	57		70	07	A051	TO116
62	CA3037	12	30mt		5.0m§	5.0u§	12u§	4.5 §t	10k	4.0	5.0kØ	200k	57		70	5C	A051	MP3
63	CA3008A	12	40mt		2.0m§	1.5u§	4.0u§	4.5 §t	15k	6.7 †	19kØ	200k	57	3.0 †	70	5C	A051	FP10
64	CA3010A	12	40mt		2.0m§	1.5u§	4.0u§	4.5 §t	15k	6.7 †	19kØ	200k	57	3.0 †	70	5C	A051	CN18
65	CA3029A	12	40mt		2.0m§	1.5u§	4.0u§	4.5 §t	15k	6.7 †	19kØ	200k	57	3.0 †	70	5C	A051	TO116
66	CA3037A	12	40mt		2.0m§	1.5u§	4.0u§	4.5 §t	15k	6.7 †	19kØ	200k	57	3.0 †	70	5C	A051	MP3
67	CA3060D*†	12	45m		5.0m§	1.0u§	5.0u§	8.3 §	10k	10	150u	110kt		8.0 †	70	5C	A180	Δ001AE
68	uA749DHC	12	54m		10m§	600n§	1.5u§	-4 §	50k	10			80		70	07	A113	TO99
69	MC1530F	12	150m		6.0m	2.0u§	10u§	4.0	10k	9.0	1.0kØ	1.0M	73	1.7	70	5C	A045	TO91
70	MC1530G	12	150m		6.0m	2.0u§	10u§	4.0	10k	9.0	1.0kØ	1.0M	73	1.7	70	5C	A045	CN8g
71	MC1430F	12	150m		10m§	4.0u§	15u§	4.0	5.0k	8.0	1.0kØ	1.0M	69	1.7	65	07	A045	TO91
72	MC1430G	12	150m		10m§	4.0u§	15u§	4.0	5.0k	8.0	1.0kØ	1.0M	69	1.7	65	07	A045	CN8g
73	MC1430P	12	150m		10m§	4.0u§	15u§	4.0	5.0k	8.0	1.0kØ	1.0M	69	1.7	65	07	A045	TO116
74	MC1531F	12	150m		10m§	250n§	150n§	4.0	1.0M	9.0	1.0kØ	400kt	67	1.4	65	5C	A046	TO91
75	MC1531G	12	150m		10m§	250n§	150n§	4.0	1.0M	9.0	1.0kØ	400kt	67	1.4	65	5C	A046	CN8g
76	MC1431F	12	150m		15m§	100n§	300n§	4.0	300k	8.0	1.0kØ	400kt	63	1.4	60	07	A046	TO91
77	MC1431G	12	150m		15m§	100n§	300n§	4.0	300k	8.0	1.0kØ	400kt	63	1.4	60	07	A046	CN8g
78	MC1431P	12	150m		15m§	100n§	300n§	4.0	300k	8.0	1.0kØ	400kt	63	1.4	60	07	A046	TO116
79	MC1535F*	12	150m	10ut	5.0m	300n§	6.0u	5.0 §	10k	5.0	10kØ	2.0MØt	72	167mt	70	5C	A035	TO86
80	MC1535G*	12	150m	10ut	5.0m	300n§	6.0u	5.0 §	10k	5.0	10kØ	2.0MØt	72	167mt	70	5C	A035	CN10j
81	MC1535L*	12	150m	10ut	5.0m	300n§	6.0u	5.0 §	10k	5.0	10kØ	2.0MØt	72	167mt	70	5C	A035	TO116
82	MC1435F*	12	180m	10ut	7.5m	1.5u	10u	5.0 §	10k	4.6	10kØ	2.0MØt	71	167mt	70	07	A035	TO86
83	MC1435G*	12	180m	10ut	7.5m	1.5u	10u	5.0 §	10k	4.6	10kØ	2.0MØt	71	167mt	70	07	A035	CN10j
84	MC1435L*	12	180m	10ut	7.5m	1.5u	10u	5.0 §	10k	4.6	10kØ	2.0MØt	71	167mt	70	07	A035	TO116
85	MC1520F	12	240m	2.0ut	10m§	200n	2.0u§	4.0	500k	7.0	7.0kØ	2.0Mt	60	5.0 †	75	5C	B007	TO91
86♦	MC1520G	12	240m	2.0ut	10m§	200n	2.0u§	4.0	500k	7.0	7.0kØ	2.0Mt	60	5.0 †	75	5C	B007	CN10m
87♦	MC1420F	12	240m	2.0ut	15m§	200n§	40u§	6.0 †	2.0Mt	6.0	7.0kØ	2.0Mt	64 †	5.0 †	60	07	B007	TO91
88♦	MC1420G	12	240m	2.0ut	15m§	200n§	40u§	6.0 †	2.0Mt	6.0	7.0kØ	2.0Mt	64 †	5.0 †	60	07	B007	CN10m
89	CA3060*	14	200m		5.0m§	1.0u§	5.0u§	9.5 §	10k	10	1.3u			100mt	70	5C	A180	Δ001AE
90	CA3060H*	14	200m		5.0m§	1.0u§	5.0u§	9.5 §	10k	10	1.3u			100mt	70	5C	A180	FC16p
91#	TL1741	15	85m	6.0ut	6.0m	500n	500n§	24	300k	24	10kØ	10	94	800mt	70	5C	A014	TO99
92	NC210A	15	200m	15u	1.0m§	130n§		24	50k	24 †		2.5Mt	62	100 †	65	5C	A103	CN34
93	NC210B	15	200m	25u	5.0m§	200n§		24	30k	24 †		2.5Mt	58	100 †	60	5C	A103	CN34
94	CA3401E	15 §	210m				500n		100k	13	5.0m	5.0MtØ	60	600mt		5C	A205	Δ001AB
95	MC3301P	15 §	215m				100n†		100kØ	13	3.0m	4.0MØt	40	600mt	55 †	48	A204	MP307
96	MC3401P	15 §	215m				500n		100k	13	5.0m	5.0MØt	40	600mt	55 †	07	A205	MP307
97#	TCA230	16 §		5.0 §†	5.0m§		10u§†	5.4 §†				1.2G§	48		85 †	5C	A203	TO74
98	748CE	18		30u	6.0m	200	500n	30	300k	24	10kØ		86	500m	70	07		TO99
99▼	SN52702FA#1	18 §	120m	5.0uØ	6.0m	3.0uØ	20uØ	4.5 §	8.0k	10	100kØ		63	1.7 †	70	5C	A015	FP2t
100▼	SN52702J#1	18 §	120m	5.0uØ	6.0m	3.0uØ	20uØ	4.5 §	8.0k	10	100kØ		63	1.7 †	70	5C	A015	TO116
101▼	SN52702L#1	18 §	120m	5.0uØ	6.0m	3.0uØ	20uØ	4.5 §	8.0k	10	100kØ		63	1.7 †	70	5C	A015	TO99
102	MIC712-1B	18 §	120m	10u	3.0m	1.5uØ	10uØ	4.5 §	10k	10	100kØ		67		80	5C	A015	TO91
103	MIC712-1C	18 §	120m	10u	3.0m	1.5uØ	10uØ	4.5 §	10k	10	100kØ		67		80	5C	A015	CN1
104	MIC712-1D	18 §	120m	10u	3.0m	1.5uØ	10uØ	4.5 §	16k	10	100kØ		67		80	5C	A015	MP14m
105▼	SN52702AFA#1	18 §	120m	10uØ	3.0m	1.5uØ	10uØ	4.5 §	16k	10	100kØ		68	1.7 †	80	5C	A015	FP2t
106▼	SN52702AJ#1	18 §	120m	10uØ	3.0m	1.5uØ	10uØ	4.5 §	16k	10	100kØ		68	1.7 †	80	5C	A015	TO116
107▼	SN52702AL#1	18 §	120m	10uØ	3.0m	1.5uØ	10uØ	4.5 §	16k	10	100kØ		88	1.7 †	80	5C	A015	TO99
108	uA702DM	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ		68		80	5C	A015	TO116
109	uA702FM	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ		68		80	5C	A015	TO91
110	uA702HM	18 §	120m	10u	3.0m	1.5u	10u	4.5 §	16k	10	100kØ		68		80	5C	A015	TO99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	RC702DN	18 §♦	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0Mt	63		70	07	A015	MP40
2	RC702DP	18 §♦	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0Mt	63		70	07	A015	MP40
3	RC702T	18 §♦	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0Mt	63		70	07	A015	TO99
4	RM702D	18 §♦	120m	10u	6.0m	3.0u	20u	4.5 §	8.0k	10	100kØ	1.0Mt	63		70	5C	A015	MP40
5	RM702AQ	18 §♦	120m	15u	3.0m	1.5u	10u	4.5 §	40kt	10	100kØ		68		80	5C	A015	FP2k
6	RM702AT	18 §♦	120m	15u	3.0m	1.5u	10u	4.5 §	40kt	10	100kØ		68		80	5C	A015	TO99
7#	702-9-6E	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ	1.0Mt	66	50 †	80	07		TO116
8	712-9-5B	18 §	120m	20u	6.5m	2.5u	12u☑	4.5 §	10k	7.0	10kØ		86		65	07	A015	TO99
9	MIC712-5B	18 §	120m	20u	6.5m	2.5u	12u☑	4.5 §	10k	10	100kØ		66		70	07	A015	TO91
10	MIC712-5C	18 §	120m	20u	6.5m	2.5u	12u☑	4.5 §	10k	10	100kØ		66		70	07	A015	CN1
11	MIC712-5D	18 §	120m	20u	6.5m	2.5u	12u☑	4.5 §	10k	10	100kØ		66		70	07	A015	MP14m
12	RC702D	18 §♦	120m	20u	6.5m	2.5u	12u	4.5 §	25kt	10	100kØ		64		65	07	A015	MP40
13	RC702Q	18 §♦	120m	20u	6.5m	2.5u	12u	4.5 §	25kt	10	100kØ		64		65	07	A015	FP2k
14	uA702DC	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ		66		70	07	A015	TO116
15	uA702HC	18 §	120m	20u	6.5m	2.5u	12u	4.5 §	10k	10	100kØ		66		70	07	A015	TO99
16▼	SN72702FA	18 §	125m	5.0u☑	15m	7.5u☑	20u☑	4.5 §	6.0k	10	100kØ		60	1.7 †	65	07	A015	FP2t
17▼	SN72702J	18 §	125m	5.0u☑	15m	7.5u☑	20u☑	4.5 §	6.0k	10	100kØ		60	1.7 †	65	07	A015	TO116
18	SN72702L	18 §	125m	5.0u	15m	7.5u	20u	4.5 §	6.0k	10	100kØ		60	1.7	65	07	A015	TO99
19	SN72702N	18 §	125m	5.0u	15m	7.5u	20u	4.5 §	6.0k	10	100kØ		60	1.7	65	07	A015	MP39h
20	ADO52A	18 §	210m	20u	5.0m§	2.0u§	7.5u§	5.0	10k	8.0	6.0m	20M§	68	15	70	5C	A057	MP47
21	ADO52C	18 §	210m	20u	5.0m§	2.0u§	7.5u§	5.0	10k	8.0	6.0m	20M§	66	15	70	07	A057	MP47
22▼	741CP	18	500m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	94	500m	70	0A	A014	MP161
23	SN521A	19 §	28mt	25u	4.0m		2.0ut§	8.0 Δ	30k	5.0	2.0kØ	30k	54		50	5C	A065	TO89
24	SN522A	19 §	72mt	25u	4.0m		2.0ut§	8.0 Δ	30k	5.0	2.0kØ	30k	54		50	5C	A066	TO89
25#	TAA861W	20		6.0u	2.0m	50n	1.0u		200k	16	400 Ø		90	3.0	80	07	A125	FP26
26#	TAA865W	20		6.0u	2.0m	50n	1.0u		200k	16	400 Ø		90	3.0	80	28	A125	FP26
27#	TAA861A	20	30m	6.0ut	10m§	300n§	1.0u§	18 †	200kt	18	2.0kØ		90 †	3.0 †	80	07	A125a	MP303
28#	TAA865A	20	60m	6.0u	2.0m	50n	1.5n	18	200k	16	400 Ø		90	3.0	80	28	A125	
29♦#	TAA861	20	70mt	6.0ut	10m§	300n§	1.5u		200k		70m		90 †	3.0		07	A196	TO78
30♦#	TAA865	20	70mt	6.0ut	10m§	300n§	1.5u		200k		70m		90 †	3.0		28	A196	TO78
31#	SFC2861C	20	70mt	6.0ut	11m§	330n§	1.5u§	18 †	200kt	18	2.0kØ		90 †	3.0 †	80	07	A125a	CN44
32#	SFC2861DC	20	70mt	6.0ut	11m§	330n§	1.5u§	18 †	200kt	18	2.0kØ		90 †	3.0 †	80	07	A125a	MP279
33#	SFC2861DT	20	70mt	6.0ut	11m§	330n§	1.5u§	18 †	200kt	18	2.0kØ		90 †	3.0 †	80	28	A125a	MP279
34#	SFC2861M	20	70mt	6.0u	11m	330n	1.5u	18	200kt	18	2.0kØ		90 †	3.0 †	80	5C	A125a	CN44
35#	SFC2861PM	20	70mt	6.0u	11m	330n	1.5u	18	200kt	18	2.0kØ		90 †	3.0 †	80	5C	A125a	TO91
36#	SFC2861T	20	70mt	6.0ut	11m§	330n§	1.5u§	18 †	200kt	18	2.0kØ		90 †	3.0 †	80	28	A125a	CN44
37	LM107J	20	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	2.0	80	5C		TO116
38	LM207J	20	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	2.0	80	28		TO116
39	748BE	22	500m	30u	5.0m	200	500n	30	300k	24	10kØ		86	500m	70	5C		TO99
40▼	748CP	22	500m	30u	6.0m	200n	500n	30	300k	24	10kØ	1.0MØ	86	500m	70	07		MP161
41♦	741BN	22	670m		6.0m	500n	1.5u	24	300k	24	2.0kØ	1.0MØ	94	500m	70	5C	A014	TO116
42	PC201	24		10u	5.0m	20n§†	300n§†	8.0 Δ	200k			20kt	72 †		100	5C	A027	FP9
43	PC201H	24		10u	5.0m	20nt§	300nt§	16 Δ	200kt			10kt	73 †		100	5C	A027	FP9
44	CA3094T	24	12m		7.0m	300n	700n	27	500k	27 †	2.0kØ	4.0kt	86	500 †	70	5C	A207	Δ002AL
45	A242	24	24mt	250nØ	15u§Δ		50p§		400kt	20	2.0m	1.0MØ	100m	300mt		28	A053b	MP199
46	PC200	24	30m	10u	5.0m	40n§†	600n§†	8.0 Δ	100kt			20kt	73 †		65	5C	A026	FP7
47	PC200H	24	34mt	10u	5.0m	40nt§	600nt§	16 Δ	100kt	12	10kØ	20kt	73 †		65	5C	A026	FP7c
48	4009#1	24	60m	500ut	100mt		200nt	20 †	20kt	6.0 †	2.0kØ	30MØt	53 †	10 †	60 †	5C	A040	CN14
49	PC212	24	90mt	15u	5.0m§	100n§	500nt§	20 †	60k	20 †	5.0kØ	1.0Mt	60	200ut	65	5C	A028	FP7d
50	LH0005CH	24	108m		10m	25n	100n	24	500k	16	10kØ		66		55	08	A005	CN8
51	LH0005AH	24	108m	10u	4.0m	25n	125n	24	1.0M	10	100 Ø		66		60	5C	A005	CN8
52	LH0005H	24	108m	20u	10m	75n	250n	24	1.0M	10	100 Ø		66		55	5C	A005	CN8
53	NH0005-883	24	108m	20ut	10m	75n	250n		1.0M	16	10kØ		66		55	5C		CN36
54#	M5133P	24	120mt	6.6ut	7.5m§	35n§	350n§	11 §	150k	18	36m		84	1.2 †	84	27	A061	MP14j
55#	ZN402E	24	168m	5.0ut§	6.0m§	500n§	1.2u§	10	100kt	10	3.0m	10kt	74		80	6C	A188	MP14aa
56#	ZN402T	24	168m	5.0ut§	6.0m§	500n§	1.2u§	10	100kt	10	3.0m	10kt	74		80	6C	A189	CN1n
57	CA3015H	24	175mt		1.0m§	1.6u§	6.0u§	8.7 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A015	FC16b
58	CA3015L	24	175mt		1.0m§	1.6u§	6.0u§	8.7 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A015	FC17
59	CA3015A	24	175mt		2.0m§	1.6u§	6.0u§	8.6 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A051	FP10
60	CA3016A	24	175mt		2.0m§	1.6u§	6.0u§	8.6 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A051	CN18
61	CA3030A	24	175mt		2.0m§	1.6u§	6.0u§	8.6 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A051	TO116
62	CA3038A	24	175mt		2.0m§	1.6u§	6.0u§	8.6 §†	7.5k	14 †	19kØ	200k	66	7.0 †	80	5C	A051	MP3
63	CA3015	24	175mt		5.0m§	5.0u§	24u§	8.7 §†	5.0k	12	12kØ	200k	66		80	5C	A015	CN18
64	CA3016	24	175mt		5.0m§	5.0u§	24u§	8.7 §†	5.0k	12	12kØ	200k	66		80	5C	A015	FP10
65	CA3030	24	175mt		5.0m§	5.0u§	24u§	8.7 §†	5.0k	12	11kØ	200k	66		80	07	A015	TO116
66	CA3038	24	175mt		5.0m§	5.0u§	24u§	8.7 §†	5.0k	12	12kØ	200k	66		80	5C	A015	MP3
67	CA3033	24	180m	6.6ut	5.0m§	35n§	350n§	11 §	150k	18	72m	20kt	84	1.2 †	84	5C	A061	MP3
68	CA3033H	24	180m	6.6ut	5.0m§	35n§	350n§	11 §	150k	18	72m	20kt	84	1.2 †	84	5C	A061	FC16g
69	CA3047	24	180m	6.6ut	5.0m§	35n§	350n§	11 §	150k	18	72m	20kt	84	1.2 †	84	07	A061	TO116
70	425#1	24	192m	20ut	20mt		500nt	20 †	20kt	6.0 †	50 Ø	2.0MØt	73 †	5.0 †	80 †	28	A039	OCT
71	435#1	24	192m	20ut	20mt		500nt	20 †	20kt	16 †	50 Ø	2.0MØt	73 †	5.0 †	80 †	28		CN☑
72#	ZLD2T	24	240m	25u☑	12m§	500n§	4.0u§	24 Δ	500kt	18	6.0mt	50kt	65 †		80 †	58	A080	TO78
73#	ZLD2U	24	240m	50u☑	20m§	3.0u§	6.0u§	24 Δ	250kt	30	6.0mt	100kt	50 †		80 †	58	A080	TO78
74#	SL701B/T	24	300m	15ut§	5.0m§	300n§	1.0u§		100kt	7.0 †		250k	66		70	5H	A076	CN11b
75#	SL702B/T	24	300m	15ut§	5.0m§	300n§	1.0u§		100kt	7.0 †		250k	66		70	5H	A076	CN11b
76#	SL751B/E	24	300m	15ut§	5.0m§	300n§	1.0u§		100kt	7.0 †		250k	66		70	5H	A076	MP14k
77#	SL751B/F	24	300m	15ut§	5.0m§	300n§	1.0u§		100kt	7.0 †		250k	66		70	5H	A076	FP6c
78#	SL701C/T	24	300m	15ut§	20m§	1.8u§	3.0u§		100kt	7.0 †		250k	66		60	5H	A076	CN11b
79#	SL702C/T	24	300m	15ut§	20m§	1.8u§	3.0u§		100kt	7.0 †		250k	66		60	5H	A076	CN11b
80#	SL751C/E	24	300m	15ut§	20m§	1.8u§	3.0u§		100kt	7.0 †		250k	66		60	5H	A076	MP14k
81#	SL751C/F	24	300m	15ut§	20m§	1.8u§	3.0u§		100kt	7.0 †		250k	66		60	5H	A076	FP6c
82	TOA1747J*	30			6.0m	500n	1.5	24	300k	24	10kØ	10k	94	500mt	70	5C		TO116
83	TOA2747J*	30			7.5m	300n	800m	24	300k	24	10kØ	10k	86	500mt	70	07		TO116
84	AD504M	30		500n	500u§	10n§	80n§	30	1.3M	20	10m	300k	120	120mt	110	07		
85	TOA2809J*	30		3.0ut	10m	750n	2.0u	16	150k	24	10kØ	10k	83	300mt	65	07	A104	TO116
86	TOA1809J*	30		6.0ut	6.0m	500n☑	1.5u☑	16	150k	24	10kØ	10k	87	300mt	70	5C	A104	TO116
87#	TCA325A	30		6.0u	7.5m	50n	1.0u		200k	24			90	9.0	84	07	A196	MP303
88#	SFC2315DC	30		6.0u	10m	50n	1.0u		3.0M	24			90		84	07	A195	MP279
89#	TCA315A	30		6.0u	10m	50n	1.0u		3.0M	24			90		84	07	A195	MP303
90#	TCA335A	30		6.0u	10m	50n	1.0u		3.0M	24			90	9.0	84	07	A195	MP303
91	AD506L	30		10u	1.0m§		5.0p§	20	100G	20	10m	100k	97	3.0	80	07		
92	AD507S	30		20u	4.0m§	15n§	15n§	20	65M	20	1.0m	100M	100	20	80	5C		
93	L144CL	30	750u		10m	70n	200n	24		20	1.5m	400kØ	80	400m	80	07	A201	TO86
94	AMLM308D	30 ♦	900ut	30u	10m	1.5n	10n	27	10M	26	10kØ		87		80	07	A157	MP151a
95	AMLM308H	30 ♦	900ut	30u	10m	1.5n	10n	27	10M	26	10kØ		87		80	07	A157	TO99
96	RC4132DN	30 ♦	1.1m	15	4.0m	4.0n	20n	30	20Mt	24	10kØ		94	130mt	80	07		MP40
97	RM4132D	30 ♦	1.1m	15	4.0m	4.0n	20n	30	20Mt	24	10kØ		94	130mt	80	5C		MP40
98	RM4132Q	30 ♦	1.1m	15	4.0m	4.0n	20n	30	20Mt	24	10kØ		94	130mt	80	5C		FP2k
99	RM4132T	30 ♦	1.1m	15	4.0m	4.0n	20n	30	20Mt	24	10kØ		94	130mt	80	5C		TO99
100	SG1250M	30	1.2m	4.0u	4.0m	8.0n	15n	30	3.0M	22	10kØ		100	200mt	70	5C	A123	MP189a
101	SG1250T	30	1.2m	4.0u	4.0m	8.0n	15n	30	3.0m	22	10kØ	300kØ	100	200mt	70	5C	A199	TO99
102	SG2250M	30	1.2m	4.0u	4.0m	8.0n	15n	30	3.0M	22	10kØ		100	200mt	70	07	A123	MP189a
103	SG2250T	30	1.2m	4.0u	4.0m	8.0n	15n	30	3.0m	22	10kØ	300kØ	100	200mt	70	5C	A199	TO99
104	SG3250M	30	1.2m	6.0u	7.5m	15n	30n	30	3.0M	22	10kØ		96	200mt	70	07	A123	MP189a
105	SG3250T	30	1.2m	6.0u	7.5m	15n	30n	30	3.0m	22	10kØ	250kØ	96	200mt	70	07	A199	TO99
106	RC4132D	30 ♦	1.3mt	20u	6.0m	7.5n	35n	30	10Mt	24	10kØ		94	130mt	70			MP40
107	RC4132Q	30 ♦	1.3mt	20u	6.0m	7.5m	35n	30	10Mt	24	10kØ		94	130mt	70			FP2k
108	RC4132T	30 ♦	1.3mt	20u	6.0m	7.5n	35n	30	10Mt	24	10kØ		94	130mt	70			TO99
109	Q200	30	1.9m	20u	1.0m§		25n§	6.0	4.0M	2.0	2.0m	150kØ	86	3.0	75	28		MP5bc
110	LH0001AD	30 ♦	2.1mt	3.0u	4.0m	100n	300n	40		20	2.0kØ		88		70	5C	A215	MP148

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T C E O M D P E	DRAWINGS	
		1 TOT. VOLT. (±V)	2 MAX IDLE P (W)	OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (±V)	DIFF IMP. (Ω)	P-P VOLT. (±V)	P-P CUR. (±A)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	LH0001AF	30 ♦	2.1m†	3.0u	4.0m	100n	300n	40		20	2.0kØ		88		70	5C	A215	FP18
2	LH0001AH	30 ♦	2.1m†	3.0u	4.0m	100n	300n	40		20	2.0kØ		88		70	5C	A215	CN17g
3	LH0001ACD	30 ♦	2.1m†	3.0u	7.0m	100n	300n	40		20	2.0kØ		88		70	28	A215	MP148
4	LH0001ACF	30 ♦	2.1m†	3.0u	7.0m	100n	300n	40		20	2.0kØ		88		70	28	A215	FP18
5	LH0001ACH	30 ♦	2.1m†	3.0u	7.0m	100n	300n	40		20	2.0kØ		88		70	28	A215	CN17g
6	1323-01	30	2.4m	30u†	3.0m§	2.5n†§	20n§	20	50k†	24	20m	1.0MØ†	106	20 †	106 †	28		TO99
7	1323-02	30	2.4m	30u†	3.0m§	2.5n†§	20n§	20	50k†	24	20m	1.0MØ†	106	20 †	106 †	5C		TO99
8	1323	30	2.4m	30u†	5.0m§	2.5n†§	40n§	20	50k†	24	20m	1.0MØ†	106	20 †	106 †	07		TO99
9	LM4250H	30	3.0m		6.0m	10nØ	50n	27		24	10kØ		94		70	07	A123b	CN1f
10	LM4250CH	30	3.0m		7.5m	25n	80n	27		24	10kØ		94		70	07	A123b	CN1f
11	LM4250CN	30	3.0m		7.5m	25n	80n	27		24	10kØ		94		70	5C	A123b	MP236
12	uA776DM	30	5.4m		6.0m	40n	120n	20	5.0M†	20	5.0kØ		100	800m†	70	5C	A187a	TO116
13	uA776HM	30	5.4m		6.0m	40n	120n	20	5.0M†	20	5.0kØ		100	800m†	70	5C	A187	TO99
14	uA776DC	30	5.7m		7.5m	40n	100n	20	5.0M†	20	5.0kØ		94	800m†	70	07	A187a	TO116
15	uA776HC	30	5.7m		7.5m	40n	100n	20	5.0M†	20	5.0kØ		94	800m†	70	07	A187	TO99
16	uA776TC	30	5.7m		7.5m	40n	100n	20	5.0M†	20	5.0kØ		94	800m†	70	07	A187	MP48a
17	ADO39	30	6.0m	50u	1.0mΔ§		50p§	24	100G	22	2.0m	200k§	97	200m	66	28	A053b	MP42b
18▼	HA2A2720#2†	30	6.3m†		5.0m	20n	40n		5.0M†	26	10m†		88	800m	90	5C	A249	TO99
19▼	HA2A2725#2†	30	6.3m†		7.0m	20n	40n		5.0M†	26	10m†		88	800m	90	07	A249	TO99
20▼	SN52L022JP*	30	6.6m		6.0m	100n	250n	24		20	10kØ	800kØ†		500m†	60 †	5C	A179	MP383
21▼	SN52L022L*	30	6.6m		6.0m	100n	250n	24		20	10kØ	800kØ†		500m†	60 †	5C	A179	TO99
22▼	SN72L022L*	30	7.5m		7.5m	200n	400n	24		20	10kØ	800kØ†		500m†	60 †	07	A179	TO99
23▼	SN72L022P*	30	7.5m		7.5m	200n	400n	24		20	10kØ	800kØ†		500m†	60 †	07	A179	MP267
24	AMLM308	30	9.0m	30u	10m	1.5n	10n	27	10M	26	10kØ		86		80	07	A157	TO99
25▼	SN52L044JA*	30	12m		6.0m	100n	250n	24		20	10kØ	800kØ†		500m†	60 †	5C	A252	MP382
26▼	SN72L044JA*	30	15m		7.5m	200n	400n	24		20	10kØ	800kØ†		500m†	60 †	07	A252	MP382
27▼	SN72L044N*	30	15m		7.5m	200n	400n	24		20	10kØ	800kØ†		500m†	60 †	07	A252	MP252c
28	SG308T	30 ♦	16m	30u§	10m§	1.5n§	10n§	27	10M	26	10kØ	800k	88	400m	80	07	A098	TO99
29	AD108AH	30	18m	5u	500u	200p	2.0n	28		26						5C		TO99
30	AD208AH	30	18m	5u	500u	200p	2.0n	28		26						28		TO99
31	CA108AS	30	18m	5.0u§	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	CN46
32	CA108AT	30	18m	5.0u§	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	Δ002AL
33	CA208AS	30	18m	5.0u§	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A098	CN46
34	CA208AT	30	18m	5.0u§	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A098	Δ002AL
35	AD108H	30	18m	15u	2.0m	200p	2.0n	28		26						5C	A146	TO99
36	AD208H	30	18m	15u	2.0m	200p	2.0n	28		26						28	A146	TO99
37	CA108S	30	18m	15u§	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	5C	A098	CN46
38	CA108T	30	18m	15u§	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	5C	A098	Δ002AL
39	CA208S	30	18m	15u§	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	28	A098	CN46
40	CA208T	30	18m	15u§	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	28	A098	Δ002AL
41	LH2108D	30	18m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	10 †	88	200m†	85	5C	A221	MP230a
42	LH2108F	30	18m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	10 †	88	200m†	85	5C	A221	FP28
43	LH2208D	30	18m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	10 †	88	200m†	85	28	a221	MP230a
44	LH2208F	30	18m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	10 †	88	200m†	85	28	A221	FP28
45	183L	30	20m	1.5u	Δ	4.0n§	40n§	20 Δ	2.0M	20	5.0m	500kØ	106	300m	100	28		MP5n
46	183K	30	20m	3.0u	Δ	4.0n§	40n§	20 Δ	2.0M	20	5.0m	500kØ	106	300m	100	28		MP5n
47	183J	30	20m	5.0u	Δ	4.0n§	40n§	20 Δ	2.0M	20	5.0m	500kØ	106	300m	100	28		MP5n
48♦	9831	30	20m	5.0u	5.0m	3.0n	35n	20	10M	20	40m	3.0M§	110	10	86	27		MP268
49▼	AM1660HC	30	22m	30u	10m	4.0n	25n	30	4.0M	26	10kØ		87	100m	80	07	A157	TO99
50	SG1660T	30	22m	30u	10m	4.0n	25n	30	4.0M	26	10kØ		87	100m	80	07	A157	TO99
51	SG1760T	30	22m	30u	10m	4.0n	25n	30	4.0M	26	10kØ		87	100m	80	07		
52	AD308AH	30	24m	5u	500u	1.0n	7.0n	28		26						07		TO99
53	AMLM308A	30	24m	5.0u	730u	1.5n	10n	27	10M	26	10kØ		98		96	07	A157	TO99
54	AMLM308AD	30 ♦	24m	5.0u	730u	1.5n	10n	27	10M	26	10kØ		98		96	07	A157	MP151a
55	AMLM308AH	30 ♦	24m	5.0u	730u	1.5n	10n	27	10M	26	10kØ		98		96	07	A157	TO99
56	CA308AS	30	24m	5.0u§	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A098	CN46
57	CA308AT	30	24m	5.0u§	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A098	Δ002AL
58	LH2308AD	30	24m	5.0u	730u	1.5n	10n	28	10M	26	2.6m	10 †	96	200m†	96	07		MP230a
59	LH2308AF	30	24m	5.0u	730u	1.5n	10n	28	10M	26	2.6m	10 †	96	200m†	96	07		FP28
60	LM308AD	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A098	MP14r
61	LM308AF	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A098	FP2n
62	LM308AH	30	24m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A098	CN1d
63	SG308AT	30 ♦	24m	5.0u	730m	1.5n	10n	27	10M	26	10kØ		92		96	07		TO99
64	AD308H	30	24m	30u	7.5m	1.0n	7.0n	28		26						07	A146	TO99
65	AMLM312	30	24m	30u	10m	1.5n	10n	27	10M	26	10kØ		86		80	07	A244	TO99
66	AMLM312D	30	24m	30u	10m	1.5n	10n	27	10M	26	10kØ		86		80	07	A244	MP151a
67	CA308S	30	24m	30u§	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	CN46
68	CA308T	30	24m	30u§	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	Δ002AL
69	ICL308LNTY	30	24m	30u	10m	1.5n	10n	27		26	10kØ	300ktØ	83	300m†	80	07		TO99
70	LH2308D	30	24m	30u	10m	1.5n	10n	27	10M	26	10kØ	10 †	84	200m†	80	07	A221	MP230a
71	LH2308F	30	24m	30u	10m	1.5n	10n	27	10M	26	10kØ	10 †	84	200m†	80	07	A221	FP28
72	LM308D	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	MP148
73	LM308F	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	TO99
74	LM308H	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	TO99
75	LM308N	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A098	MP189
76	LM312D	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A206	MP148
77	LM312F	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A206	FP2
78	LM312H	30	24m	30u	10m	1.5n	10n	28	10M	26	10kØ		87		80	07	A206	TO99
79#	TAA761A	30	30m	6.0u†§	7.5m§	300n§	1.0u§	27 †	200k†	28	2.0kØ		90 †	9.0 †	80	07	A125a	MP303
80#	TAA765	30	30m	6.0u†§	7.5m§	300n§	1.0u§	27 †	200k†	28	2.0kØ		90 †	9.0 †	80	28	A125	TO78
81	1617	30	30m†	15u	Δ	2.0n†	3.0n	20 †	1.0M†	20	6.0m	500kØ	90	500m	80	28		MP5y
82	42K	30	30m	25u	2.0m§Δ		250f§	30	10T†	20	10m	1.0MtØ	120	250m	66	28		MP5c
83	1402-02	30	30m	50u	300u§	10p	30p	24	1.0T†	26	2.0m	2.5MØ†	80	3.0	76	28		CN2
84	1402	30	30m	50u	3.0m	10p	30p	24	1.0T†	26	2.0m	2.5MØ†	80	3.0	76	28		CN2
85	42J	30	30m	75u	2.0m§Δ		500f§	30	10T†	20	10m	1.0MtØ	120	250m	66	28		MP5c
86	42L	30	30m	75u	2.0m§Δ		150f§	30	10T†	20	10m	1.0MtØ	120	250m	66	28		MP5c
87	CA3080	30	36m		5.0m	600n§	7.0u	24	10k	24	350u	2.0Mt		50 †	80	07	Z124	Δ002AL
88	CA3080A	30	36m		5.0m	600n§	8.0u	24	10k	24	350u	2.0Mt		50 †	80	5C	Z124	Δ002AL
89	CA3080AS	30	36m		5.0m	600n§	8.0u	24	10k	24	350u	2.0Mt		50 †	80	5C	Z124	
90	CA3080H	30	36m		5.0m	600n§	7.0u	24	10k	24	350u	2.0Mt		50 †	80	5C	Z124	FC16t
91	CA3080S	30	36m		5.0m	600n§	7.0u	24	10k	24	350u	2.0Mt		50 †	80	5C	Z124	
92	ULS2174D	30	40m		3.5m	7.0n	30n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A174b	TO99
93	ULS2174G	30	40m		3.5m	7.0n	30n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A172a	FPØ
94	ULS2174H	30	40m		3.5m	7.0n	30n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A173d	MPØ
95	ULS2174M	30	40m		3.5m	7.0n	30n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A200	MPØ
96	ULS2173D	30	40m		5.0m	7.0n	17n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A174	TO99
97	ULS2173G	30	40m		5.0m	7.0n	17n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A172	FPØ
98	ULS2173H	30	40m		5.0m	7.0n	17n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A173e	MPØ
99	ULS2173M	30	40m		5.0m	7.0n	17n	24	30M	20	5.0kØ	4.0kt	100	250m	85	5C	A200a	MPØ
100	RM4131D	30 ♦	40m	15u	3.0m	20n	100n	30	3.5M†	24	10kØ		94	1.5	80	5C	A092	MP40
101	RM4131Q	30 ♦	40m	15u	3.0m	20n	100n	30	3.5M†	24	10kØ		94	1.5	80	5C	A092	FP2k
102	RM4131T	30 ♦	40m	15u	3.0m	20n	100n	30	3.5M†	24	10kØ		94	1.5	80	5C	A092	TO99
103	RC4131DN	30 ♦	40m	15	3.0m	20n	100n	30	3.5M†	24	10kØ		94	1.5	80	07	A092	MP40
104♦	MC1556G	30	45m		6.0m	2.0n§	30n	24	5.0M†	24	2.0kØ	1.0MtØ	100	2.5 †	80	5C	A100	CN1k
105▼	MC1556L	30	45m		6.0m	2.0n§	30n	24	5.0M†	24	2.0kØ	1.0MØ†	100	2.5 †	80	5C	A100	TO116
106	S5556T	30	45m		6.0m	3.0n	30n	24	5.0M†	24	2.0kØ	1.0MtØ	100	2.5 †	80	5C	A139	CN1g
107	SG1556T	30	45m		6.0m	2.0n§	30n	24	5.0M†	24	2.0kØ	1.0MtØ	100	2.5 †	80	5C	A100	TO99
108	ULS2156D	30	45m		6.0m	5.0n	30n	24	5.0M†	24	2.0kØ	40kt	100	2.5 †	80	5C	A174	TO99
109	ULS2156G	30	45m		6.0m	5.0n	30n	24	5.0M†	24	2.0kØ	40kt	100	2.5 †	80	5C	A172	FPØ
110	ULS2156H	30	45m		6.0m	5.0n	30n	24	5.0M†	24	2.0kØ	40kt	100	2.5 †	80	5C	A173e	MPØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE		MAX CURRENT		MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C			CMRR	T C E O M D P E	DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	(dB)	- +	CKT.	OUT-LINE Δ=MO
1	ULS2156M	30	45m		6.0m	5.0n	30n	24	5.0MT	24	2.0kØ	40kT	100	2.5 T	80	5C	A200a	MPØ
2	ULN2173D	30	45m		6.5m	15n	30n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A174	TO99
3	ULN2173G	30	45m		6.5m	15n	30n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A172	FPØ
4	ULN2173H	30	45m		6.5m	15n	30n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A173e	MPØ
5	ULN2173M	30	45m		6.5m	15n	30n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A200a	MPØ
6	ULN2174D	30	45m		6.5m	15n	17n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A174b	TO99
7	ULN2174G	30	45m		6.5m	15n	17n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A172a	FPØ
8	ULN2174H	30	45m		6.5m	15n	17n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A173d	MPØ
9	ULN2174M	30	45m		6.5m	15n	17n	24	10M	20	5.0kØ	3.0kT	94	200m	80	59	A200	MPØ
10	RM1556AD	30	45m	15u	6.0m	5.0n	30n	24	5.0MT	24	2.0kØ	4.0MTØ	106 T	2.0	80	5C	A100	MP322
11	RM1556AT	30	45m	15u	6.0m	5.0n	30n	24	5.0MT	24	2.0kØ	4.0MTØ	106 T	2.0	80	5C	A100	TO99
12	RM1556D	30	45m	15u	6.0m	5.0n	30n	24	5.0MT	24	2.0kØ	4.0MTØ	106 T	2.0	80	5C	A100	MP322
13	RM1556T	30	45m	15u	6.0m	5.0n	30n	24	5.0MT	24	2.0kØ	4.0MTØ	106 T	2.0	80	5C	A100	TO99
14	RC4131D	30 ♦	57mT	20u	6.0m	30n	200n	30	3.0MT	24	10kØ		94	2.0 T	70	07	A092	MP40
15	RC4131Q	30 ♦	57mT	20u	6.0m	30n	200n	30	3.0MT	24	10kØ		94	2.0 T	70	07	A092	FP2k
16	RC4131T	30 ♦	57mT	20u	6.0m	30n	200n	30	3.0MT	24	10kØ		94	2.0 T	70	07	A092	TO99
17#	M5141T	30	60mT		5.0m§	200n§	500n§		300k	20			94		70	27	A117	TO78
18	LM747D883	30	60m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A042n	MPØ
19	LM747D*	30	60m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A042n	MPØ
20	LM747F	30	60m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A042n	FPØ
21	LM747H883	30	60m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A042n	TO99
22	LM747H*	30	60m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A042n	TO99
23	SN52770L	30	60m		7.0m	5.0n	35n	24	100MT	24	2.0kØ	1.3MTØ	94	2.5 T	80	5C	A184	TO99
24	SN52771L	30	60m		7.0m	5.0n	35n	24	100MT	24	2.0kØ	1.3MTØ	94	2.5 T	80	5c	A185	TO99
25	119K	30	60m	5.0u	Δ	3.0n	35n	20	1.0M	20	40m	1.5MØ	114	6.0	86	05		MP5ab
26	monoOP01HJ	30	60m	5.0u	1.0m	4.0n	50n	24		25	5.0kØ	2.5MTØ	94	18 T	90	07	A174	TO99
27	monoOP01HY	30	60m	5.0u	1.0m	4.0n	50n	24		25	5.0kØ	2.5MTØ	94	18 T	90	07	A173	TO116
28	monoOP01J	30	60m	5.0u	1.0m	4.0n	50n	24		25	5.0kØ	2.5MTØ	94	18 T	90	5C	A174	TO99
29	monoOP01L	30	60m	5.0u	1.0m	4.0n	50n	24		25	5.0kØ	2.5MTØ	94	18 T	90	5C	A172	FP27
30	monoOP01Y	30	60m	5.0u	1.0m	4.0n	50n	24		25	5.0kØ	2.5MTØ	94	18 T	90	5C	A173	TO116
31	119A	30	60m	20u	Δ	3.0n	35n	20	1.0M	20	40m	1.5MØ	114	6.0	86	28		MP5ab
32	RC1556D	30	60m	20u	14m	14m	40n	22	3.0MT	22	2.0kØ	4.0MTØ	100 T	2.0	70	07	A100	MP322
33	RC1556DN	30	60m	20u	14m	14n	40n	22	3.0MT	22	2.0kØ	4.0MTØ	100 T	2.0	70	07	A100	MP189
34	RC1556T	30	60m	20u	14m	14n	40n	22	3.0MT	22	2.0kØ	4.0MTØ	100 T	2.0	70	07	A100	TO99
35	LM747CD*	30	68m		7.5m	300n	800n	24	300k	24	10kØ		94		70	07	A042n	MP14r
36	LM747CH*	30	68m		7.5m	300n	800n	24	300k	24	10kØ		94		70	07	A042n	TO99
37	LM747CN*	30	68m		7.5m	300n	800n	24	300k	24	10kØ		94		70	07	A042n	MPØ
38	ULS2159D	30	70m		3.5m	15n	75n			24	2.0kØ	400kT	100	25 T	90	5C	A174	TO99
39	ULS2159G	30	70m		3.5m	15n	75n			24	2.0kØ	400kT	100	25 T	90	5C	A172	TO91
40	ULS2159H	30	70m		3.5m	15n	75n			24	2.0kØ	400kT	100	25 T	90	5C	A173	MP152a
41	ULS2159M	30	70m		3.5m	15n	75n			24	2.0kØ	400kT	100	25 T	90	5C	A151	MP48
42	HA2A909	30	75m		6.0mΔ	300n	750n	24 T	200k	24	40m	7.0MØT	87	3.5	80	5C	A226	TO99
43	HA9V909	30	75m		6.0mΔ	300n	750n	24 T	200k	24	40m	7.0MØT	87	3.5	80	5C	A226	TO86
44	HA2A911	30	75m		7.5mΔ	450n	750n	24	100k	22	30m	7.0MØT	86	5.0 T	74	07	A226	TO99
45	HA9V911	30	75m		7.5mΔ	450n	750n	24 T	100k	22	30m	7.0MØT	86	5.0 T	74	07	A226	TO86
46#	SFC2709A	30	75m	1.8u§T	.60m§T	10n§T	.10u§T		700kT	28 T			93 T		110 T	5C	A003	TO99
47#	SFC2709AE	30	75m	3.0u§T	1.0m§T	50n§T	200n§T		400kT	28 T			93 T	250mT	90 T	07	A003	TO116
48	LH0052D	30	75m	5.0u	700u	100p	500p	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	MP148
49	LH0052H883	30	75m	5.0u	700u	100p	500p	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	CN17g
50	LH0052H	30	75m	5.0u	700u	100p	500p	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	CN17g
51	LH0022D	30	75m	10u	5.0m	200p	1.0n	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	MP148
52	LH0022F	30	75m	10u	5.0m	200p	1.0n	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	FP18
53	LH0022H	30	75m	10u	5.0m	200p	1.0n	24	1.0TT	20	20m	1.0MTØ	100	1.5	80	5C	A223	CN17g
54▼	AMSSS747CK	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	07	A178	TO110
55▼	AMSSS747CP	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	07	A177	TO116
56	SSS747CK*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	07	A178	TO110
57	SSS747CM*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	07	A176	TO86
58	SSS747CP*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	07	A177	TO116
59	SSS747GK*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	5C	A178	TO110
60	SSS747GM*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	5C	A176	TO86
61	SSS747GP*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	1.0MTØ	94	1.0 T	70	5C	A177	TO116
62	SSS1458*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	3.0MTØ	94	1.4 T	70	07	A179	TO99
63	SSS1558*	30	75m	15uT	6.0m	50n	150n	24	1.0M	24	10kØ	3.0MTØ	94	1.4 T	70	5C	A179	TO99
64#	SFC2709C	30	80m		2.0m§T	.10u§T	.30u§T		250kT	28 T			93 T		90 T	07	A003	TO99
65#	SFC2709M	30	80m	3.0u§T	1.0m§T	50n§T	.20u§T		400kT	28 T			93 T		90 T	5C	A003	TO99
66	CA6741S	30	84m		5.0m§	200n§	500n§	24		24	10kØ		94		70	5C	A181	
67	CA6741T	30	84m		5.0m§	200n§	500n§	24		24	10kØ		94		70	5C	A181	Δ002AL
68▼	AM747HM	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94	300m	70	5C	A160	TO100
69▼	AM748FM	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94	300m	70	5C	A160	TO100
70	LM741F	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A236	FP2
71	LM741H883	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A014	TO99
72	LM741H	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C	A236	TO99
73#	SFC2741EM	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mT	70	5C	A042k	TO116
74#	SFC2741M	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mT	70	5C	A042k	TO99
75#	SFC2741PM	30	84m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mT	70	5C	A042k	TO91
76▼	AM747HC	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	300m	70	07	A160	TO100
77	LM741CD	30	84m		7.5m	300n	800n	24	300k	24	10kØ		88		70	07	A236	MP148
78	LM741CH	30	84m		7.5m	300n	800n	24	300k	24	10kØ		88		70	07	A236	TO99
79	LM741CN14	30	84m		7.5m	300n	800n	24	300k	24	10kØ		88		70	07	A236	MP39n
80	LM741CN	30	84m		7.5m	300n	800n	24	300k	24	10kØ		88		70	07	A236	MP189
81#	SFC2741C	30	84m		7.5m	300n	800n	24	300k	24	10kØ		86	500mT	70	07	A042k	TO99
82#	SFC2741DC	30	84m		7.5m	300n	800n	24	300k	24	10kØ		86	500mT	70	07	A042k	MP48
83#	SFC2741EC	30	84m		7.5m	300n	800n	24	300k	24	10kØ		86	500mT	70	07	A042k	TO116
84#	SFC2748C	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	500mT	70	07	A112	TO99
85#	SFC2748DC	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	500mT	70	07	A112	MP48
86#	SFC2748M	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	500mT	70	5C	A112	TO99
87#	SFC2748PC	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	500mT	70	07	A112	TO91
88#	SFC2748PM	30	84m		7.5m	300n	800n	24	300k	24	10kØ		94	500mT	70	5C	A112	TO91
89	LM748CH	30 ♦	84m	6.0u	6.0m	300n	800n	24	300k	24	10kØ		94		70	07		TO99
90	LM748CN	30	84m	6.0u	6.0m	300n	800	24	300k	24	10kØ		94		70	07		MPØ
91	LM748H	30 ♦	84m	6.0u	6.0m	500n	1.5u	24	300k	24	10kØ		94		70	5C		TO99
92	ICL741CLNPA	30	84m	10uT	7.5m	300n	800n	24		24	10kØ	1.0MTØ	83	500mT	70	07		
93	ICL741CLNTY	30	84m	10uT	7.5m	300n	800n	24		24	10kØ	1.0MTØ	83	500mT	70	07		TO99
94	1421-02	30	84m	25u	15m§	5.0p§	10p§	24	1.0T	20	20m	1.0MØ	100	3.0	80	28		TO99
95	1421	30	84m	50u	15m§	25p§	50p§	24	1.0T	20	20m	1.0MØ	100	3.0	72	28		TO99
96	1421-01	30	84m	50u	15m§	10p§	15p§	24	1.0T	20	20m	1.0MØ	100	3.0	72	28		TO99
97	TOA3741F	30	85m					24			10kØ	10k	94	1.0 T	70	5C		TO99
98	TOA3741J	30	85m					24			10kØ	10k	94	1.0 T	70	5C		TO99
99	TOA3741V	30	85m					24			10kØ	10k	94	1.0 T	70	5C		TO99
100	ULN2159H	30	85m		6.5n	75n	350n			24	2.0kØ	400kT	94	25 T	80	59	A173	MP152a
101	TOA3748F	30	85m		2.0m	10n	75n	24	1.5M	24	10kØ	10k	94	10 T	70	5C		TO99
102	TOA3748J	30	85m		2.0m	10n	75n	24	1.5M	24	10kØ	10k	94	10 T	70	5C		TO99
103	TOA3748V	30	85m		2.0m	10n	75n	24	1.5M	24	10kØ	10k	94	10 T	70	5C		TO99
104	ULS2158D	30	85m		3.5m	10n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A174b	TO99
105	ULS2158G	30	85m		3.5m	10n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A172a	FPØ
106	ULS2158H	30	85m		3.5m	10n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A173d	MPØ
107	ULS2158M	30	85m		3.5m	10n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A200	MPØ
108	DPA500	30 ♦	85mT		5.0m	200n	500n	24	300k	22	50 Ø	1.0MTØ	94	2.5 T	70	5C		CN2c
109	ID4741	30	85m		5.0m§Δ	200n§	500n§	24	500k	20	2.0kØ	700kØ	94	600mT	70	5C	A042k	
110	MCB1748F	30	85m		5.0m§	200n§	500n§	26 T	2.0MT	24	10kØ		93	800mT	90 T	5C	A148a	TO91

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	MCBC1748	30	85m		5.0m§	200n§	500n§	26 †	2.0MΩ	24	10kØ		93	800m†	90 †	5C	A148a	FC1a
2	MCC1741	30	85m		5.0m§	200n§	500n§	26 †	1.0MΩ	24	10kØ		93	800m†	90 †	5C	A014	FC13
3	MCC1748	30	85m		5.0m§	200n§	500n§	26 †	2.0MΩ	24	10kØ		94	800m†	90 †	5C	A148	FC14
4	MCCF1741	30	85m		5.0m§	200n§	500n§	26 †	1.0MΩ	24	10kØ		94	1.0 †	90 †	5C	A042	FC21a
5#	741-12-5B	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m†	70	5C	A042k	TO99
6	741BE	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MØ	94		70	5C	A014	TO99
7	741BH	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MØ	94	500m†	70	5C	A014	FPØ
8	AD741	30	85m		6.0m	200nØ	500n	24	300k	20	2.0kØ		93	500m†	70	5C	A042k	TO99
9▼	AM741DM	30	85m		6.0m	500nØ	1.5uØ	24	300k	24	10kØ		93	500m†	70	5C	A159	MP151a
10▼	AM741HM	30	85m		6.0m	500nØ	1.5uØ	24	300k	24	10kØ		93	500m†	70	5C	A159	TO99
11▼	AM747DM	30	85m		6.0m	500nØ	1.5uØ	24	300k	24	10kØ		93	500m†	70	5C	A159	MP151a
12▼	AM747FM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	300m	70	5C	A160	FP2n
13▼	AM748DM	30	85m		6.0m	500nØ	1.5uØ	24	300k	24	10kØ		93	500m†	70	5C	A155	MP151a
14▼	AM748HM	30	85m		6.0m	500nØ	1.5uØ	24	300k	24	10kØ		93	500m†	70	5C	A155	MP151a
15	CA741L	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		86	500m†	70	5C	A181	FC19
16	CA741T	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A181	Δ002AL
17	CA747E*	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A181c	Δ001AB
18	CA747T*	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A181b	Δ006AF
19	CA748S*	30	85m		6.0m	300n	1.5u	24	300k	24	10kØ		94	500m†	70	5C		
20	CA748T*	30	85m		6.0m	300n	1.5u	24	300k	24	10kØ		94	500m†	70	07		Δ002AL
21	CA1558S*	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A181a	
22	CA1558T*	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A181a	Δ002AL
23	ID4741C	30	85m		6.0m§Δ	200n§	500n§	24	300k	20	2.0kØ	700kØ	86	600m†	70	07	A042k	
24#	L147B1	30	85m		6.0m	200n	800n	24	300k	24	2.0kØ	1.0M	94	500m†	70	07	A042n	TO116
25#	L148T2	30	85m		6.0m	200n§	500n§	24	300k	20	2.0kØ		94	500m†	70	5C	A042q	TO99
26	LTA741	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		87	500m†	70	5C		MP255
27♦	MC1741F	30	85m		6.0m	500n	1.5u	24	2.0MΩ	24	10kØ		94	500m†	70	5C	A014	TO91
28♦	MC1741G	30	85m		6.0m	500n	1.5u	24	2.0MΩ	24	10kØ		94	500m†	70	5C	A014	CN1k
29♦	MC1741L	30	85m		6.0m	500n	1.5u	24	2.0MΩ	24	10kØ		94	500m†	70	5C	A014	TO116
30	MC1747F*	30	85m		6.0m	500n	1.5u	24		24	10kØ	800kØ	84	500m†	70	5C	A181c	TO86
31	MC1747G*	30	85m		6.0m	500n	1.5u	24		24	10kØ	800kØ	84	500m†	70	5C	A181c	TO100
32	MC1747L*	30	85m		6.0m	500n	1.5u	24		24	10kØ	800kØ	84	500m†	70	5C	A181c	TO116
33	MC1748G	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	10	94	800m†	70	5C	A148	TO99
34	MCC1741C	30	85m		6.0m§	200n§	500n§	26 †	1.0MΩ	24	10kØ		86	800m†	90 †	5C	A014	FC13
35	MCC1748C	30	85m		6.0m§	200n§	500n§	26 †	2.0MΩ	24	10kØ		86	800m†	90 †	07	A148	FC14
36	MCCF1741C	30	85m		6.0m§	200n§	500n§	26 †	1.0MΩ	24	10kØ		86	1.0 †	90 †	07	A042	FC21a
37	MIC741-1C	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m†	70	5C		CN1
38	MIC741-1D	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m†	70	5C		MP14p
39#	MT741	30	85m		6.0m	500nØ	1.5uØ	30	300k	24	10kØ		93	500m†	70	5C	A042m	CN1c
40	RC741DN	30 ♦	85m		6.0m	500n	1.5u	24	1.0MΩ	24	10kØ		94	500m†	70	07	A042k	MP40
41	RC741DP	30 ♦	85m		6.0m	500n	1.5u	24	1.0MΩ	24	10kØ		94	500m†	70	07	A042k	MP40
42	RM741D	30 ♦	85m		6.0m	500n	1.5u	24	1.0mΩ	24	10kØ		94	500m†	70	5C	A042k	MP40
43	RM741Q	30 ♦	85m		6.0m	500n	1.5u	24	1.0mΩ	24	10kØ		94	500m†	70	5C	A042k	FP2k
44	RM741T	30 ♦	85m		6.0m	500n	1.5u	24	1.0mΩ	24	10kØ		94	500m†	70	5C	A042k	TO99
45	S5741A	30	85m		6.0m	500n	1.5u	24	300k	20	5.0m	1.0MØ	94	500m	70	5C		TO116
46	S5741V	30	85m		6.0m	500n	1.5u	24	300k	20	5.0m	1.0MØ	94	500m	70	5C		MP216
47	S5748A	30	85m		6.0m	200n	500n	24	300k	20	5.0m	1.0MØ	94			5C		TO116
48	S5748T	30	85m		6.0m	500nØ	1.5uØ	24	300k	20	2.0kØ		93	500m†	70	5C	A042e	CN1g
49	S5748V	30	85m		6.0m	200n	500n	24	300k	20	5.0m	1.0MØ	94			5C		MP216
50	SG741CT	30	85m		6.0m§	200n§	500n§	30	300k			5.0kt	86	500m†	90 †	5C	A042m	TO99
51	SG741T	30	85m		6.0m	500n	1.5u	30	300k	20		5.0kt	94	500m†	90 †	5C	A042m	TO99
52	SG747D	30	85m		6.0m	200n§	500n§	24	300k	20	2.0kØ		94	500m†	70	5C	A042n	MP40
53	SG748T	30	85m		6.0m	200n§	500n§	24	300k	20	2.0kØ		94	500m†	70	5C	A112	TO99
54	SG1217T	30	85m		6.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C	A042k	TO99
55	SN52741J	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m	70	5C	A154	MP139
56	SN52741L	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m	70	5C	A154	TO99
57▼	SN52747FA	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A154a	FP22
58▼	SN52747JA	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A154a	MP381
59▼	SN52747L	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A154a	TO100
60▼	SN52748FA	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A153	FP22
61	SN52748J	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m	70	5C	A153	MP139
62▼	SN52748JA	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A153	MP381
63▼	SN52748JP	30	85m		6.0m	500m	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A153	MP383
64	SN52748L	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m	70	5C	A153	TO99
65#	TBA222%	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0M	106	500m	70	5C	A042k	TO99
66	TOA1741F	30	85m		6.0m	50u	1.5u	24	300k	24	10kØ	10k	94	50 †	70	5C		TO91
67	TOA1741J	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	10k	94	500m†	70	5C		TO116
68	TOA1741V	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	10k	94	500m†	70	5C		TO99
69	TOA1748F	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO91
70	TOA1748J	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO116
71	TOA1748V	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ	100k	94	5.0 †	70	5C		TO99
72	TOA7741F	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	1.0 †	70	5C		TO91
73	TOA7741J	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	1.0 †	70	5C		TO116
74	TOA7741V	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	1.0 †	70	5C		TO99
75	TOA7747J*	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	1.0 †	70	5C		TO116
76	TOA7748F	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	10 †	70	5C		TO99
77	TOA7748J	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	10 †	70	5C		TO99
78	TOA7748V	30	85m		6.0m	30n	90n	24	3.0M	24	10kØ	10k	94	10 †	70	5C		TO99
79	uA741DM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A042k	TO116
80	uA741FM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A042k	TO91
81	uA741HM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A042k	TO99
82	uA747DM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A042n	MP14x
83	uA747HM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A042n	TO100
84	uA748DM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A112	TO116
85	uA748HM	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A112	TO99
86	uA748TC	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500m†	70	5C	A112	MP48a
87	UC4741D*	30	85m		6.0mΔ	500n	1.5u	24	500k	20	2.0kØ	700kØ	94	600m†	70	5C	A042k	MP40
88	UC4747*	30	85m		6.0mΔ	500n	1.5u	24	500k	20	2.0kØ	700kØ	94	600m†	70	5C	A042k	MP40
89	ULS2741C	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m†	70	5C	A042k	
90	ULS2741D	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m†	70	5C	A042k	TO78
91#	ZLD741	30	85m		6.0m	500n	1.5u	24	300k	24	10kØ		93	500m†	70	5C	A071	CN1j
92	ULN2158D	30	85m		6.5m	50n	350n	24	400k	20	2.0kØ	6.0k	88	400m	75	59	A174b	TO99
93	ULN2158G	30	85m		6.5m	50n	350n	24	400k	20	2.0kØ	6.0k	88	400m	75	59	A172a	FPØ
94	ULN2158H	30	85m		6.5m	50n	350n	24	400k	20	2.0kØ	6.0k	88	400m	75	59	A173d	MPØ
95	ULN2158M	30	85m		6.5m	50n	350n	24	400k	20	2.0kØ	6.0k	88	400m	75	59	A200	MPØ
96	ULN2159D	30	85m		6.5m	75n	350n			24	2.0kØ	400kt	94	25 †	80	59	A174	TO99
97	ULN2159G	30	85m		6.5m	75n	350n			24	2.0kØ	400kt	94	25 †	80	59	A172	TO91
98	ULN2159M	30	85m		6.5m	75n	350n			24	2.0kØ	400kt	94	25 †	80	59	A151	MP48
99#	741-93-5B	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m†	70	07	A042k	TO99
100	741CE	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	94		70	0A	A014	TO99
101	741CJ	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0MØ	94		70	0A	A014	MP147
102	AD741C	30	85m		7.5m	200nØ	500n	24	300k	20	2.0kØ		86	500m†		07	A042k	TO99
103▼	AM741DC	30	85m		7.5m	300nØ	800nØ	24	300k	24	10kØ		86	500m†	70	07	A155	MP151a
104▼	AM741HC	30	85m		7.5m	300nØ	800nØ	24	300k	24	10kØ		86	500m†	70	07	A159	TO99
105▼	AM747DC	30	85m		7.5m	300nØ	800nØ	24	300k	24	10kØ		93	500m†	70	07	A160	MP151a
106▼	AM748DC	30	85m		7.5m	300nØ	800nØ	24	300k	24	10kØ		93	500m†	70	07	A155	MP151a
107	CA741CH	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A181	FC16y
108	CA741CS	30	85m		7.5m	300n	800n	24	300k	24	10kØ		94	500m†	70	5C	A181	
109	CA741CT	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A181	Δ002AL
110	CA747CE*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A181c	Δ001AB

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE				MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T C E O M D P E	DRAWINGS	
		[1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	MAX VOLTAGE [3] DRFT (V/°C)	MAX VOLTAGE [4] OFST (V)	MAX CURRENT OFFSET (A)	MAX CURRENT BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	CA747CF*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A181c	Δ001AB
2	CA747CH*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A181c	FC16z
3	CA747CT*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A181b	Δ002AF
4	CA748CH	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A148a	FC16y
5	CA748CS	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A148a	
6	CA748CT	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	5C	A148a	Δ002AL
7	CA1458T*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A181a	Δ002AL
8	ICB8008C	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ		86	500m†	70	07	A014	TO99
9	ICB8741C	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A014	TO99
10#	L141B1	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07	A042k	MP39
11#	L148T1	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A112	TO99
12	LTA741C	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07		MP255
13♦	MC1741CF	30	85m		7.5m	300n	800n	24	2.0M†	24	10kØ		86	500m†	70	07	A014	TO91
14♦	MC1741CG	30	85m		7.5m	300n	800n	24	2.0M†	24	10kØ		86	500m†	70	07	A014	CN1k
15♦	MC1741CL	30	85m		7.5m	300n	800n	24	2.0M†	24	10kØ		86	500m†	70	07	A014	TO116
16♦	MC1741CP1	30	85m		7.5m	300n	800n	24	2.0M†	24	10kØ		86	500m†	70	07	A014	MP161
17♦	MC1741CP2	30	85m		7.5m	300n	800n	24	2.0M†	24	10kØ		86	500m†	70	07	A014	MP307
18	MC1747CF*	30	85m		7.5m	500n	800n	24		24	10kØ	800kØ	88	500m†	70	07	A181c	TO86
19	MC1747CG*	30	85m		7.5m	500n	800n	24		24	10kØ	800kØ	88	500m†	70	07	A181c	TO100
20	MC1747CL*	30	85m		7.5m	500n	800n	24		24	10kØ	800kØ	88	500m†	70	07	A181c	TO116
21	MC1748CG	30	85m		7.5m	300n	800n	24	300k	24	10kØ	10	86	800m†	70	07	A148	TO99
22	MIC741-5C	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07		CN1
23	MIC741-5D	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07		MP14p
24#	MT741C	30	85m		7.5m	300n	800n	30	300k	20	2.0kØ		86	500m†	70	07	A042m	CN1c
25	N5741A	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A042k	MP153
26	N5741T	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A042k	CN1g
27	N5741V	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A042k	MP216
28	N5748A	30	85m		7.5m	300nØ	800nØ	24	300k	20	2.0kØ		93	500m†	70	07	A112b	MP153
29	N5748T	30	85m		7.5m	300nØ	800nØ	24	300k	20	2.0kØ		93	500m†	70	07	A112b	CN1g
30	N5748V	30	85m		7.5m	300nØ	800nØ	24	300k	20	2.0kØ		93	500m†	70	07	A112b	MP216
31	RC741D	30 ♦	85m		7.5m	300n	800n	24	1.0m†	24	10kØ		86	500m†	70	07	A042k	MP40
32	RC741Q	30 ♦	85m		7.5m	300n	800n	24	1.0m†	24	10kØ		86	500m†	70	07	A042k	FP2k
33	RC741T	30 ♦	85m		7.5m	300n	800n	24	1.0m†	24	10kØ		86	500m†	70	07	A042k	TO99
34	RC748D	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A112	MP40
35	RC748DN	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A112	MP40
36	RC748DP	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A112	MP40
37	RC748Q	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A112	FP2k
38	RC748T	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A112	TO99
39	RM748D	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	5C	A112	MP40
40	RM748Q	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	5C	A112	FP2k
41	RM748T	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	5C	A112	TO99
42#	SFC2741DT	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	28	A042k	MP48
43#	SFC2741PC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042k	TO91
44	SG741CM	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07	A042k	MP189a
45	SG741CN	30	85m		7.5m	300n	800n	30	300k	20		5.0k†	86	500m†	70	07	A042m	MP39a
46	SG747CD	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		94	500m†	70	07	A042n	TO116
47	SG748CM	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m	70	07	A112	MP189a
48	SG748CT	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		86	500m†	70	07	A112	TO99
49	SG3217T	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07	A042k	TO99
50	SN72741J	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m	70	07	A154	MP139
51	SN72741L	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m	70	07	A154	TO99
52	SN72741N	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m	70	07	A154	MP39h
53	SN72741P	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m	70	07	A154	MP161
54▼	SN72747FA	30	85m		7.5m	300m	800n	24	300k	24	10kØ		94	500m†	70	07	A154a	FP22
55▼	SN72747L	30	85m		7.5m	300m	800n	24	300k	24	10kØ		94	500m†	70	07	A154a	TO100
56▼	SN72748FA	30	85m		7.5m	300m	800n	24	300k	24	10kØ		94	500m†	70	07	A153	FP22
57	SN72748J	30	85m		7.5m	300n	800n	24	300k	24	10kØ		93	500m	70	07	A153	MP139
58	SN72748L	30	85m		7.5m	300n	800n	24	300k	24	10kØ		93	500m	70	07	A153	TO99
59	SN72748N	30	85m		7.5m	300n	800n	24	300k	24	10kØ		93	500m	70	07	A153	MP39h
60	SN72748P	30	85m		7.5m	300n	800n	24	300k	24	10kØ		93	500m	70	07	A153	MP161
61#	TBA221%	30	85m		7.5m	300n	800n	24	300k	24	10kØ	1.0M	86	500m	70	07	A042k	TO99
62#	TBA221B	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042	MP189b
63#	TBA221D	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042	MP355
64	TOA2741F	30	85m		7.5m	.30u	.80u	24	300k	24	10kØ	10k	86	.50 †	70	07		TO91
65	TOA2741V	30	85m		7.5m	300n	800n	24	300k	24	10kØ	10k	86	500m†	70	07		TO99
66	TOA2748F	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO91
67	TOA2748J	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO116
68	TOA2748V	30	85m		7.5m	300n	800n	24	300k	24	10kØ	100k	94	5.0 †	70	07		TO99
69	TOA8741F	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO99
70	TOA8741V	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO99
71	TOA8747J*	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO116
72	TOA8748F	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	10 †	70	07		TO99
73	TOA8748J	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	10 †	70	07		TO99
74	TOA8748V	30	85m		7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	10 †	70	07		TO99
75	TRI741I*	30	85m		7.5m	300n	800n	24	300	20	2.0kØ	1.0M	86	500m	70	07	A149	TO86
76	TRI741II*	30	85m		7.5m	300n	800n	24	300	20	2.0kØ	1.0M	86	500m	70	07	A247	TO86
77	TRI741III*	30	85m		7.5m	300n	800n	24	300	20	2.0kØ	1.0M	86	500m	70	07	A248	FP32
78	uA741DC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042k	TO116
79	uA741HC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042k	TO99
80	uA741TC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042k	MP48a
81	uA747-7A-393*	30	85m		7.5m	300n	800n	24	300k	20	2.0kØ		88	500m†	70	07	A042n	MP14x
82	uA747DC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		88	500m†	70	07	A042n	MP14x
83	uA747HC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		88	500m†	70	07	A042n	TO100
84	uA748DC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A112	TO116
85	uA748FM	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A112	TO91
86	uA748HC	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A112	TO99
87	UC4741CD*	30	85m		7.5mΔ	300n	800n	24	300k	20	2.0kØ	700kØ	86	600m†	70	07	A042k	MP40
88	UC4741CE	30	85m		7.5mΔ	300n	800n	24	300k	20	2.0kØ	700ktØ	86	500m†	70	07	A042k	MP236
89	UC4747C*	30	85m		7.5mΔ	300n	800n	24	300k	20	2.0kØ	700kØ	86	600m†	70	07	A042n	MP40
90	ULN2741D	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042k	CN11b
91	ULN2747A*	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A042n	MP14w
92#	ZLD741C	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A071	CN1j
93#	ZLD741CE	30	85m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07		TO116
94	ULS2151D	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A174	TO99
95	ULS2151G	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A172	FPØ
96	ULS2151H	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A173e	MPØ
97	ULS2151M	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A200a	MPØ
98	ULS2157A*	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A177	MP14w
99	ULS2157H*	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A177	MPØ
100	ULS2157K*	30	85m	3.0u§†	5.0m	15n	75n	24	1.5M	20	2.0kØ	8.0k	94	500m	85	5C	A178	CNØ
101	MCB1741F	30	85m	3.0u†	6.0m	500n	1.5uØ	24	300k	24	10kØ	10k†	93	800m†	70	5C	A014	FP21
102	MCBC1741	30	85m	3.0u†	6.0m	500n	1.5uØ	24	300k	24	10kØ	10k†	93	800m†	70	5C	A014	FC2
103	UC4741	30	85m	5.0u†	6.0mΔ	500n	1.5u	24	300k	24	10kØ	700ktØ	94	500m†	70	5C	A042k	TO99
104	UC4741C	30	85m	5.0u†	7.5mΔ	300n	800n	24	300k	24	10kØ	700ktØ	86	500m†	70	07	A042k	TO99
105	748-12-5B	30	85m	6.0u†	6.0m	200n§	500n§	24	300k	20	2.0kØ	2.0MtØ	94	500m†	70	5C	A112	TO99
106▼	SG741ST	30	85m	6.0u†	6.0m	500n	1.5u	24	300k	20	2.0kØ	800k§	88	10	70	5C		TO99
107	ULN2151D	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A174	TO99
108	ULN2151G	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A172	FPØ
109	ULN2151H	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A173e	MPØ
110	ULN2151M	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A200a	MPØ

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	ULN2157A*	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A177	MP14w
2	ULN2157H*	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A177	MPØ
3	ULN2157K*	30	85m	6.0u§†	6.5m	50n	350n	22	400k	20	2.0kØ	6.0k	88	400m	75	59	A178	CNØ
4#	741-93-6T	30	85m	6.0u†	7.5m	300n	800n	24	300k	20	2.0kØ	2.0MτØ	86	500mτ	70	07	A042k	
5	748-93-5B	30	85m	6.0u†	7.5m	300n	800n	24	300k	20	2.0kØ	2.0MτØ	88	500mτ	70	07	A112	TO99
6	748-93-6T	30	85m	6.0u†	7.5m	300n	800n	24	300k	20	2.0kØ	2.0MØ	88	500mτ	70	07	A112	
7	HEPC6052P-RT	30	85m	6.0u†	7.5m	300n	800nØ	24	1.0Mτ	24			86	800m	70	5C	A014	MP161
8▼	SG741SCM	30	85m	6.0u†	7.5m	300n	800n	24	300k	20	2.0kØ	800k§	84	10	70	07		MP399
9▼	SG741SCT	30	85m	6.0u†	7.5m	300n	800n	24	300k	20	2.0kØ	800k§	84	10	70	07		TO99
10#	TL1741C	30	85m	6.0u†	7.5m	300n	800n	24	300k	24	10kØ	10	86	800mτ	70	07	A014	TO99
11#	TL3741C	30	85m	6.0u†	7.5m	300n	800n	24	300k	24	10kØ	10	86	800mτ	70	07	A014	MP39f
12	TOA2741J	30	85m	6.0u†	7.5m	300n	800n	24	300k	24	10kØ	10k	86	500mτ	70	07		TO116
13	TOA8741J	30	85m	6.0u†	7.5m	30n	90n	24	1.0M	24	10kØ	10k	94	1.0 †	70	07		TO116
14	ICL8008MTY	30	85m	7.0u†	6.0m	30n	50n	20	5.0M	24	10kØ	2.0MτØ	86	500mτ	70	5c	A014	TO99
15	AD741K	30	85m	15u	3.0m	15nØ	120nØ	24	2.0M	20	2.0kØ		93	500mτ	90	07	A042k	TO99
16	SG777D	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ	80 †	94	500m	80	5C		TO116
17	SG777F	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ	80 †	94	500m	80	5C		TO91
18	SG777T	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ	80 †	94	500mτ	80	5C		TO99
19	uA777DM	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	500mτ	80	5C	A186b	TO116
20	uA777FM	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	500mτ	80	5C	A186	TO91
21	uA777HM	30	85m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	500mτ	80	5C	A186a	TO99
22▼	AMSSS741CJ	30	85m	15u†	6.0m	50n	200n	24	1.0M	24	10kØ	3.0MτØ	86	1.4 †	70	07	A174	TO99
23	SSS741GJ	30	85m	15u†	6.0m	50n	200n	24	1.0M	24	10kØ	3.0MτØ	94	1.4 †	70	5c	A174	TO99
24	SSS741GP	30	85m	15u†	6.0m	50n	200n	24	1.0M	24	10kØ	3.0MτØ	94	1.4 †	70	5c	A173	TO116
25	ICL8008CPA	30	85m	15u†	7.5m	30n	50n	24	5.0M	24	10kØ	2.0MτØ	86	500mτ	70	07	A014	MP236
26	ICL8008CTY	30	85m	15u†	7.5m	30n	50n	24	5.0M	24	10kØ	2.0MτØ	86	500mτ	70	07	A014	TO99
27	SSS741CJ	30	85m	15u†	7.5m	50n	200n	24	1.0M	24	10kØ	3.0MτØ	86	1.4 †	70	07	A174	TO99
28	SSS741CP	30	85m	15u†	7.5m	50n	200n	24	1.0M	24	10kØ	3.0MτØ	86	1.4 †	70	07	A173	TO116
29	LH0022CD	30	85m	15u	10m	200p	1.0n	24	1.0T†	20	20m	1.0MτØ	97	1.0	70	28	A223	MP148
30	LH0022CF	30	85m	15u	10m	200p	1.0n	24	1.0T†	20	20m	1.0MτØ	97	1.0	70	28	A223	FP18
31	LH0022CH	30	85m	15u	10m	200p	1.0n	24	1.0T†	20	20m	1.0MτØ	97	1.0	70	28	A223	CN17g
32	AD502K	30	85m	20u	6.0m	8.0nØ	15nØ	24	20M	20	2.0kØ		86	1.0 †	70	07	A190	TO99
33	SG777CD	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ	80 †	88	500m	70	07		TO116
34	SG777CF	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ	80 †	88	500m	70	07		TO91
35	SG777CT	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ	80 †	88	500m	70	07		TO99
36	uA777DC	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	500mτ	70	07	A186b	TO116
37	uA777HC	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	500mτ	70	07	A186a	TO99
38	uA777TC	30	85m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	500mτ	70	07	A186b	MP48a
39	AD502J	30	85m	40u	7.5m	24nØ	50nØ	24	5.0M	20	2.0kØ		86	1.0 †	70	07	A190	TO99
40	ZA801D1	30	90mτ				25p	30	100Gτ	20	7.0m	4.0MØ	100	6.0	80	28		MP58
41	ULS2172D	30	90m		3.5m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A174b	TO99
42	ULS2172G	30	90m		3.5m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A172a	FPØ
43	ULS2172H	30	90m		3.5m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A173d	MPØ
44	ULS2172M	30	90m		3.5m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A200	MPØ
45	CA3078AH	30 ♦	90m		4.5m	5.5n	55n	11 §†	1.7Mτ	26	10kØ	2.0kτ	92	40mτ	80	5C	Z122	FC16s
46	CA3078AS	30 ♦	90m		4.5m	5.5n	55n	11 §†	1.7Mτ	26	10kØ	2.0kτ	92	40mτ	80	5C	Z122	
47	CA3078AT	30 ♦	90m		4.5m	5.5n	55n	11 §†	1.7Mτ	26	10kØ	2.0kτ	92	40mτ	80	5C	Z122	Δ002AL
48	ULS2171D	30	90m		5.0m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A174	TO99
49	ULS2171G	30	90m		5.0m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A172	FPØ
50	ULS2171H	30	90m		5.0m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A173e	MPØ
51	ULS2171M	30	90m		5.0m	17n	40n	24	8.0M	20	2.0kØ	15k	94	1.0	85	5C	A200a	MPØ
52	ID4301A	30	90m		7.5mΔ	50n§	250n§	24	500kτ	20	10m	500kØ	88	400mτ	70	07	A090	
53♦	MC1456G	30	90m		14m	10n§	40n	22	3.0Mτ	22	2.0kØ	1.0MτØ	96	2.5 †	70	07	A100	CN1k
54▼	MC1456L	30	90m		14m	10n§	40n	22	3.0Mτ	22	2.0kØ	1.0MØτ	96	2.5 †	70	07	A100	TO116
55	N5556T	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	1.0MτØ	96	2.5 †	70	07	A139	CN1g
56	N5556V	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	1.0MτØ	96	2.5 †	70	07	A139	MP216
57	SG1456T	30	90m		14m	10n§	40n	22	3.0Mτ	22	2.0kØ	1.0MτØ	96	2.5 †	70	07	A100	TO99
58	ULN2156D	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	40kτ	97	2.5 †	70	29	A174	TO99
59	ULN2156G	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	40kτ	97	2.5 †	70	29	A172	FPØ
60	ULN2156H	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	40kτ	97	2.5 †	70	29	A173e	MPØ
61	ULN2156M	30	90m		14m	14n	40n	22	3.0Mτ	22	2.0kØ	40kτ	97	2.5 †	70	29	A200a	MPØ
62	A241	30	90mτ	50nØ	10u§Δ		15p§	SE	400kτ	20	20m	1.0MτØ	140	500m		28	A053b	MP5aw
63	A240	30	90mτ	100nØ	10u§Δ		30p§	SE	400kτ	20	20m	1.0MτØ	140	500m		28	A053b	MP5aw
64	1701	30	90m	250n	15u§		50p§		500k	24	10m	1.0MØ	140	1.2		28		MP172
65	1412	30	90m	500n	25u§		100p§		1.0M	24	10m	500kØ	140	1.2		28		MP163
66	3500E	30	90m	1.0u	500u§	30n§	50n§	22	10Mτ	20	20m	1.5MØ	100	1.0	100 †	28		TO99
67	AD504LH	30	90m	1.0u	500u	10n	50n	20		24	5.0m	300k	120	120m	110	07		TO99
68	ZA903M2	30	90mτ	1.0u	500uΔ		10p	30	100Gτ	20	7.0m	4.0MØ	100	6.0	88	06		MP5cd
69	007A3	30	90m	2.0u	200u§	20n§	150n§	20	500kτ	20	10m	2.0MØτ	88	1.0	94	58		FP1
70	007A4	30	90m	3.0u	200u§	20n§	150n§	20	500kτ	20	10m	2.0MØτ	88	1.0	94	58		FP1
71	ZA903M1	30	90mτ	3.0u	500uΔ		10p	30	100Gτ	20	7.0m	4.0MØ	100	6.0	88	06		MP5cd
72	3500C	30	90m	3.0u	1.0m§	7.0nτ§	15n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	28		TO99
73	3500CN	30	90m	3.0u	1.0m§	7.0nτ§	15n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	28		MP48b
74	AD504KH	30	90m	3.0u	1.5m	15n	150n	20		24	5.0m	300k	114	120m	100	07		TO99
75	ZA801M3	30	90mτ	5.0u			25p	30	100Gτ	20	7.0m	4.0MØ	100	6.0	80	28		MP5bf
76	207A	30	90m	5.0u	200u§	20n§	150n§	20	500kτ	20	10m	2.0MØτ	88	1.0	94	5C		CN2
77	1426-03	30	90m	5.0u	1.0m§	5.0p§†	25p§	20	100Gτ	20	10m	1.0MØ	100	3.0	80	28		TO99
78	3500T	30	90m	5.0u	1.0m§	7.0nτ§	15n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	5C		TO99
79	3500B	30	90m	5.0u	2.0m§	10nτ§	20n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	28		TO99
80	3500BN	30	90m	5.0u	2.0m§	10nτ§	20n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	28		MP48b
81	LM301N	30	90m	6.0u†	6.0m	500n	1.5u	30	300k	24	10kØ		94	200mτ	70	07	A012	MP189
82	N5201A	30 ♦	90m	6.0u†	10m	500n§	2.0u	24	100kτ	28	10kØ		86		65	07		MP153
83	N5201T	30 ♦	90m	6.0u†	10m	500n§	2.0u	24	100kτ	28	10kØ		86		65	07		CN1g
84	N5201V	30 ♦	90m	6.0u†	10m	500n§	2.0u	24	100kτ	28	10kØ		86		65	07		MP216
85	monoOP01EJ	30	90m	8.0u	3.0m	10n	100n	24	4.0M	25	5.0kØ	2.5MτØ	94	18 †	80	07	A174	TO99
86	monoOP01EY	30	90m	8.0u	3.0m	10n	100n	24	4.0M	25	5.0kØ	2.5MτØ	94	18 †	80	07	A173	TO116
87	monoOP01FJ	30	90m	8.0u	3.0m	10n	100n	24	4.0M	25	5.0kØ	2.5MτØ	94	18 †	80	5C	A174	TO99
88	monoOP01FL	30	90m	8.0u	3.0m	10n	100n	24	4.0M	25	5.0kØ	2.5MτØ	94	18 †	80	5C	A172	FP27
89	monoOP01FY	30	90m	8.0u	3.0m	10n	100n	24	4.0M	25	5.0kØ	2.5MτØ	94	18 †	80	5C	A173	TO116
90	1425-02	30	90m	10u	1.0m§	2.0p§†	5.0p§	20	1.0Tτ	20	10m	1.0MØ	100	3.0	80	28		TO99
91	1426-02	30	90m	10u	1.0m§	5.0p§†	25p§	20	100Gτ	20	10m	1.0MØ	100	3.0	80	28		TO99
92	LH0052CD	30	90m	10u	1.0m	100p	500p	24	1.0Tτ	20	20m	1.0MτØ	98	1.0	76	28	A223	MP148
93	LH0052CH	30	90m	10u	1.0m	100p	500p	24	1.0Tτ	20	20m	1.0MτØ	98	1.0	76	28	A223	CN17g
94	3500S	30	90m	10u	2.0m§	10nτ§	20n§	22	10Mτ	20	20m	1.5MτØ	93	1.0	100 †	5C		TO99
95	monoOP01CJ	30	90m	10u	6.0m	40n	200n	24		25	5.0kØ	2.5MτØ	88	18 †	80	07	A174	TO99
96	monoOP01CY	30	90m	10u	6.0m	40n	200n	24		25	5.0kØ	2.5MτØ	88	18 †	80	07	A173	TO116
97	monoOP01GJ	30	90m	10u	6.0m	40n	200n	24		25	5.0kØ	2.5MτØ	88	18 †	80	5C	A174	TO99
98	monoOP01GL	30	90m	10u	6.0m	40n	200n	24		25	5.0kØ	2.5MτØ	88	18 †	80	5C	A172	FP27
99	monoOP01GY	30	90m	10u	6.0m	40n	200n	24		25	5.0kØ	2.5MτØ	88	18 †	80	5C	A173	TO116
100	LM301D	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	100	83		65	07	A012	MP322
101	LM301F	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	100	83		65	07	A012	FP2n
102	LM301H	30 ♦	90m	10u†	10m	750n	2.0u	24	150k	24	10kØ	100	83		65	07	A012	TO99
103	1319-01	30	90m	15u	2.0m§	5.0n§	50n§	24	500k	20	10m	1.0MØτ	94	600mτ	100 †	5C		TO99
104	AD101AH	30	90m	15u	2.0m	10n	75n	24		24						5C	A134	TO99
105	AD201AH	30	90m	15u	2.0m	10n	75n	24		24						28	A134	TO99
106	LH2101AD	30	90m	15u	3.0m	20n	100n	24	1.5M	24	10kØ	10 †	88	500mτ	80	5C	A220	MP230a
107	LH2101AF	30	90m	15u	3.0m	20n	100n	24	1.5M	24	10kØ	10 †	88	500mτ	80	5C	A220	FP28
108	SSS307J	30	90m	15u†	7.5m	50n	200n	30	1.0M	24	10kØ	1.0MτØ	88	500mτ	70	07		TO99
109	SSS307P	30	90m	15u†	7.5m	50n	200n	30	1.0M	24	10kØ	1.0MτØ	88	500mτ	70	07		TO116
110	RC709DN	30	90m	16u	2.0m	250n	600n	16	700kτ	24	10kØ		88	200m	80	07	A003	MP40

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No. [5]	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T C E O M D P E	DRAWINGS	
		[1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	OVER OPERATING TEMP. RANGE MAX VOLTAGE [3] DRFT (V/°C)	[4] OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	RC709DP	30	90m	16u	2.0m	250n	600n	16	700kt	24	10kØ		88	200m	80	07	A003	MP40
2	RM709AD	30 ♦	90m	16u	2.0m	250n	600n	16	700kt	24	10kØ		88	200m	80	5C	A003	MP40
3	RM709AQ	30 ♦	90m	16u	2.0m	250n	600n	16	700kt	24	10kØ		88	200m	80	5C	A003	FP2k
4	RM709AT	30 ♦	90m	16u	2.0m	250n	600n	16	700kt	24	10kØ		88	200m	80	5C	A003	TO99
5	ADO45	30	90m	20u	Δ§	10nt§	100n§	20	200k	20	10m	1.5M§	98	1.1	80 †	28	A053	MP42a
6	ZA801M2	30	90mt	20u			25p	30	100Gt	20	7.0m	4.0MØ	100	6.0	80	28		MP5bf
7	ZA804M2	30	90mt	20u	Δ		25p	30	100Gt	20	7.0m	4.0MØ	100	6.0	80	28		MP5bf
8	3500A	30	90m	20u	5.0m§	15nt§	30n§	22	10Mt	20	20m	1.5MtØ	93	600m	100 †	28		TO99
9	3500AN	30	90m	20u	5.0m§	15nt§	30n§	22	10Mt	20	20m	1.5MtØ	93	600m	100 †	28		MP48b
10	3500R	30	90m	20u	5.0m§	15nt§	30n§	22	10Mt	20	20m	1.5MtØ	93	600m	100 †	5C		TO99
11	SSS301AJ	30	90m	20ut	10m	50n	200n	27	1.0M	24	10kØ	1.0MtØ	88	400mt	70	07		TO99
12	SSS301AP	30	90m	20ut	10m	50n	200n	27	1.0M	24	10kØ	1.0MtØ	88	400mt	70	07		TO116
13	1425-01	30	90m	25u	1.0m§	2.0p§t	5.0p§	20	1.0Tt	20	10m	1.0MØ	100	3.0	80	28		TO99
14	1426-01	30	90m	25u	1.0m§	5.0p§t	10p§	20	100Gt	20	10m	1.0MØ	100	3.0	80	28		TO99
15	1428-01	30	90m	25u	1.0m§	2.0p§t	10p§	20	1.0Tt	20	10m	1.0MØ	100	3.0	80	28		FP☑
16	1428-02	30	90m	25u	1.0m§	1.0p§t	5.0p§	20	1.0Tt	20	10m	1.0MØ	100	3.0	80	28		FP☑
17	1319	30	90m	25u	5.0m§	50n§	250n§	24	500k	20	10m	1.0MØt	94	600mt	100 †	07		TO99
18	1429-01	30	90m	30u	1.0m	100f§t	500f§	20	10Tt	20	10m	500kØ	94	3.0	80 †	07		TO99
19	AD301AH	30	90m	30u	7.5m	50n	250n	24		24						07	A134	TO99
20	LM341F	30	90m	30u	7.5m	20n	100n	24	1.5M	24	10kØ		94	1.0	70	07		TO91
21	LM341H	30	90m	30u	7.5m	20n	100n	24	1.5M	24	10kØ		94	1.0	70	07		TO99
22	LM341J	30	90m	30u	7.5m	20n	100n	24	1.5M	24	10kØ		94	1.0	70	07		TO116
23	LM342F	30	90m	30u	7.5m	20n	100n	24	1.5M	24	10kØ		94	1.0	70	07	A001	TO91
24	LM342H	30	90m	30u	7.5m	20n	100n	24		24	10kØ	3.0MtØ	100	1.0	70	07		TO99
25	LM342J	30	90m	30u	7.5m	20n	100n	24	1.5M	24	10kØ		94	1.0	70	07	A001	TO116
26	AMLM301A	30 ♦	90m	30u	10m	70n	300n	27 §	500k	24	10kØ		87		70	07	A155	TO99
27	AMLM301AD	30 ♦	90m	30u	10m	70n	300n	27 §	500k	24	10kØ		87		70	07	A155	MP151a
28	AMLM307	30 ♦	90m	30u	10m	70n	300n	27 §	500k	24	10kØ		86		70	07	A156	TO99
29	AMLM307D	30 ♦	90m	30u	10m	70n	300n	27 §	500k	24	10kØ		86		70	07	A156	MP151a
30	HA2A2301A	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		86		70	07	A090	TO99
31	HA9W2301A	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		86		70	07	A090	TO91
32	ICL301ALNPA	30	90m	30u	10m	70n	300n	27 §		24	10kØ	800ktØ	83	500mt	70	07		
33	ICL301ALNTY	30	90m	30u	10m	70n	300n	27 §		24	10kØ	800ktØ	83	500mt	70	07		TO99
34	LH2301AD	30	90m	30u	10m	70n	300n	24	500k	24	10kØ	10 †	84	500mt	70	07		MP230a
35	LH2301AF	30	90m	30u	10m	70n	300n	24	500k	24	10kØ	10 †	84	500mt	70	07		FP28
36	LM301AF	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87	500	70	07	A001	FP2
37	LM301AH	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A234	TO99
38	LM301AJ	30	90m	30u	10m	70n	300n	24	1.5M	24	10kØ	1.0MtØ	88	2.0 †	70	07	A001	TO116
39	LM301AN	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A234	MP189
40	LM307D	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A235	MP148
41	LM307F	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A235	FP2
42	LM307H	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A235	TO99
43	LM307J	30	90m	30u	10m	70n	300n	24	500k	24	10kØ	1.0MtØ	88	2.0	70	07		TO116
44	LM307N	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A235	MP189
45	MLM301AP1	30	90m	30u	10m	70n	300n§	24	500M	24	10kØ		86		70	07	A171	MP161
46	MLM307G	30	90m	30u	10m	70n	300n	30	500k	24	3.0		88		70	07	A175	TO99
47#	MT301A	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07		CN1c
48#	MT307	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07		CN1c
49	N5301AT	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0MØ	87	500m	70	07	A001	CN1g
50	N5301AV	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0MØ	87	500m	70	07	A001	MP216
51	N5307T	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800kØ	87	500m	70	07	A001	CN1g
52	N5307V	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800kØ	87	500m	70	07	A001	MP216
53#	SFC2301A	30	90m	30u	10m	70n	300n	24	500k	24	10kØ	100 †	88	500mt	70	07	A012	TO99
54#	SFC2301ADC	30	90m	30u	10m	70n	300n	24	500k	24	10kØ	1.0k	87	500mt	70	07	A012	MP98
55	SG301AN	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87		70	07	A001	TO116
56	SG301AT	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87		70	07	A001	TO99
57	SG301N	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87		70	07	A001	TO116
58	SG301T	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	1.0k	87		70	07	A001	TO99
59	SG307M	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800k	87	500m	70	07	A001	MP189a
60	SG307N	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800k	87	500m	70	07		CN17c
61	SG307T	30	90m	30u	10m	70n	300n	24	500k	20	2.0kØ	800k	87	500m	70	07		CN1c
62▼	SN72301AFA	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A150	FP22
63	SN72301AJ	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A150	MP139
64	SN72301AL	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A150	TO99
65	SN72301AN	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A150	MP39h
66	SN72301AP	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A150	MP161
67▼	SN72307FA	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A151	FP22
68▼	SN72307JA	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		88		70	07	A151	MP381
69	SN72307L	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A151	TO99
70	SN72307N	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A151	MP39h
71	SN72307P	30	90m	30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A151	MP161
72	TOA301AF	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	100 †	88		70	07	A172a	TO91
73	TOA301AJ	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	100 †	88		70	07	A173a	TO116
74	TOA301AV	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	100 †	88		70	07	A174b	TO99
75	TOA307F	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	10	88		70	07	A172b	TO91
76	TOA307J	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	10	88		70	07	A173b	TO116
77	TOA307V	30	90m	30u	10m	70n	300n	24	.50M	24	10kØ	10	88		70	07	A174c	TO99
78	UC4301A	30	90m	30u	10mΔ	70n	300n	24	500k	20	2.0kØ	500kØ	87	400mt	70	07	A090	TO99
79	9813	30	90m	30u	25m	20n	50n	20	3.0M	20	16m	1.0M§	90	2.0	30	58		MP5bk
80	ZA801M1	30	90mt	50u			25p	30	100Gt	20	7.0m	4.0MØ	100	6.0	80	28		MP5bf
81	ZA802M1	30	90mt	50u			5.0p	30	100Gt	20	7.0m	2.0MØ	100	6.0	100	28		MP5bf
82	ZA804M1	30	90mt	50u	Δ		25p	30	100Gt	20	7.0m	4.0MØ	100	6.0	80	28		MP5bf
83	1425	30	90m	50u	2.0m§	5.0p§t	10p§	20	1.0Tt	20	10m	1.0MØ	100	3.0	72	28		TO99
84	1426	30	90m	50u	2.0m§	5.0p§t	25p§	20	100Gt	20	10m	1.0MØ	100	3.0	72	28		TO99
85	1428	30	90m	50u	2.0m§	5.0p§t	25p§	20	100Gt	20	10m	1.0MØ	100	3.0	72	28		FP☑
86	1422	30	90m	50u	15m§	5.0p§	50p§	24	100Gt	20	20m	5.0M§	94	8.0	72	28		TO99
87	1422-01	30	90m	50u	15m§	2.0p§	15p§	24	100Gt	20	20m	5.0M§	100	8.0	72	28		TO99
88	1429-02	30	90m	60u	1.0m	100f§t	250f§	20	10Tt	20	10m	500kØ	94	3.0	80 †	07		TO99
89	1424	30	90m	75u	15m§	2.0p§	50p§	20	1.0Tt	20	10m	1.0MØt	86	6.0 †	72	07		TO99
90	1429	30	90m	90u	30m	100f§t	1.0p§	20	10Tt	20	10m	500kØ	86	3.0	80 †	07		TO99
91▼	9827	30	90m	100u	20m	30u	50u	20	10k	20	40m	30M§	80	10	120	5A		MP5cg
92	ULN2171D	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A174	TO99
93	ULN2171G	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A172	FP☑
94	ULN2171H	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A173e	MP☑
95	ULN2171M	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A200a	MP☑
96	ULN2172D	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A174b	TO99
97	ULN2172G	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A172a	FP☑
98	ULN2172H	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A173d	MP☑
99	ULN2172M	30	95m		6.5m	30n	75n	24	2.0M	20	2.0kØ	10k	88	800m	80	59	A200	MP☑
100	LH2201AD	30	99m	15u	3.0m	20n	100n	24	1.5M	24	10kØ	10 †	88	500mt	80	28		MP230a
101	LH2201AF	30	99m	15u	3.0m	20n	100n	24	1.5M	24	10kØ	10 †	88	500mt	80	28		FP28
102	S5741T	30	100m		6.0m	500n☑	1.5u☑	24	300k	20	2.0kØ		93	500mt	70	5C	A042k	CN1g
103▼	SN52741FA	30	100m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mt	70	5C	A154	FP22
104▼	SN52741JA	30	100m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mt	70	5C	A154	MP381
105▼	SN52741JP	30	100m		6.0m	500n	1.5u	24	300k	24	10kØ		94	500mt	70	5C	A154	MP383
106	SN52747J	30	100m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MtØ	94	500mt	70	5C	A154a	MP139
107▼	SN72741FA	30	100m		7.5m	300n	800n	24	300k	24	10kØ		86	500mt	70	07	A154	FP22
108	SN72747J	30	100m		7.5m	300n	800n	24	300k	24	10kØ	1.0MtØ	94	500mt	70	07	A154a	MP139
109	SN72747N	30	100m		7.5m	300n	800n	24	300k	24	10kØ	1.0MtØ	94	500mt	70	07	A154a	MP39h
110	118A☑	30	100m	10u	1.0m		5.0p	20	100G	20	10m	500k	88	500m	86			MP6n

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	218A	30	100m	10u	1.0m		5.0p	20	100G	20	10m	500k	88	500m	86			CN2
2	47B	30	100m	15u	Δ		2.0nØ	22	100G†	20	40m	10MtØ	100	50	100	28		MP5s
3	47T	30	100m	15u	Δ		2.0nØ	22	100G†	20	40m	10MtØ	100	50	100	58		MP5s
4▼	SN52777FA	30	100m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	5.5 †	80	5C	A186	FP2t
5▼	SN52777JA	30	100m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	5.5 †	80	5C	A186b	MP381
6▼	SN52777JP	30	100m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	5.5 †	80	5C	A186a	MP383
7▼	SN52777L	30	100m	15u	3.0m	10n	75n	24	2.0M	24	10kØ		94	5.5 †	80	5C	A186a	TO99
8	118B	30	100m	25u	1.0m		5.0p	20	100G	20	10m	500k	88	500m	86			MP6n
9	218B	30	100m	25u	1.0m		5.0p	20	100G	20	10m	500k	88	500m	86			CN2
10▼	SN72777FA	30	100m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	5.5 †	70	07	A186	FP2t
11▼	SN72777JA	30	100m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	5.5 †	70	07	A186b	MP381
12▼	SN72777L	30	100m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	5.5 †	70	07	A186a	TO99
13▼	SN72777N	30	100m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	5.5 †	70	07	A186b	MP39h
14▼	SN72777P	30	100m	30u	5.0m	40n	200n	24	1.0M	24	10kØ		88	5.5 †	70	07	A186a	MP267
15	47S	30	100m	50u	Δ		2.0nØ	22	100G†	20	40m	10MØ	100	50	100	58		MP5s
16	118C	30	100m	50u	2.0m		5.0p	20	100G	20	10m	500k	88	500m	86			MP6n
17	218C	30	100m	50u	2.0m		10p	20	100G	20	10m	500k	88	500m	86			CN2
18	809CE	30	100m†	50u§	10m§	.50u	1.5u	20	50k	20	5.0kØ	1.0kt	80		90 †	0A	A019	TO99
19	809CJ	30	100m†	50u§	10m§	.50u	1.5u	20	50k	20	5.0kØ	1.0kt	80		90 †	0A	A019	MP25
20	CTS862	30	105m		60m	15u	60u	22	20k	22	200m	10MØ	58	4.0	50	56	A088	CN8f
21	LM725AH	30	105m	2.0u	700u	4.0nØ	70nØ	27	1.5Mt	24	10kØ		120		110	5C	A107	TO99
22	RM725T	30	105m	2.0ut	1.0m	20n	100n	27	1.5Mt	20	2.0kØ		130		120 †	5C	A107	TO99
23	LH0041G883	30	105m	3.0ut	5.0m	300n	1.0u	24	300k	26	100kØ	40kt	100	1.5	70	5C	A216	CN18c
24	LH0041G	30	105m	3.0u	5.0m	300n	1.0u	24	300k	26	100 Ø		88	1.5	70	5C	A216	CN18c
25	OA104	30	105m	5.0u	1.0m§Δ		15p§†	24	10Gt	20	2.0kØ		93	5.0	65	28		MP14t
26▼	AM725DM	30	105m	5.0u	1.5m	40n	200n	27	1.5mt	24	10kØ		70 †		110	5C	A071	MP151a
27▼	AM725FM	30	105m	5.0u	1.5m	40n	200n	27	1.5Mt	24	10kØ		70 †		110	5C	A071	FP2n
28	LM725H	30	105m	5.0u	1.5m	20nØ	100nØ	27	1.5Mt	24	10kØ		120		100	5C	A107	TO99
29	uA725HM	30	105m	5.0u	1.5m	40n	200n	27	1.5Mt	24	10kØ		120		110	5C	A107	TO99
30	LH0041J	30	105m	5.0ut	7.5m	500n	1.0u	24	300k	26	100kØ	40kt	100	1.5	70	5C	A216	MP334
31	3421L	30	105m	10u	Δ	200f	200f§	20	100Gt	20	20m	250kØ	94	300m	80 †	07		MP5f
32	F418A	30	105m	10u	1.0m§		1.0p§	20	1.0T	20	10m	500kØ	88	500m	80 †	5C		MP260
33	44K	30	105m	15u	Δ		1.0nØ	22	100Gt	20	40m	10MtØ	100	50	80	28		MP5s
34	3001	30	105m†	20u§	Δ	100n§	100n§	20	1.0Mt	20 †	4.0mt	2.0M§t	94 †	200mt	120 †	5A	A062	MP49
35	OA101	30	105m	20u	1.0m§Δ		15p§†	24	10Gt	20	2.0kØ		93	5.0	65	28		MP14t
36	OA105	30	105m	20u	1.0m§Δ		75p§	24	100Gt	20	2.0kØ		93	5.0	85	58		MP14t
37	OA107	30	105m	20u	1.0m§Δ		75p§	24	100Gt	20	2.0kØ		93	5.0	85	58		MP14t
38	LH0042D883	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	MP148
39	LH0042D	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	MP148
40	LH0042F883	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	FP18
41	LH0042F	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	FP18
42	LH0042H883	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	CN17g
43	LH0042H	30	105m	20u§	20m§	5.0p§	25p§	24	1.0Tt	20	20m	1.0MtØ	94	1.5	70	5C	A223	CN17g
44	3421K	30	105m	25u	Δ	100f	100f§	20	100Gt	20	20m	250kØ	94	300m	80 †	07		MP5f
45	F418B	30	105m	25u	1.0m§		1.0p§	20	1.0T	20	10m	500kØ	88	500m	80 †	5C		MP260
46	LH0021K883	30	105m	25u	5.0m	300n	1.0u	24	300k	27	100kØ	40kt	100	1.5	70	5C	A216	CN22d
47	LH0021K	30	105m	25u	5.0m	300n	1.0u	24	300k	27	100 Ø		88	1.5	70	5C	A216	CN22d
48	OA103	30	105m	45u	1.0m§Δ		25p§†	24	10Gt	20	2.0kØ		93	5.0	65	28		MP14t
49	44J	30	105m	50u	Δ		2.0nØ	22	100Gt	20	40m	10MtØ	100	50	80	28		MP5s
50	47A	30	105m	50u	Δ		2.0nØ	22	100Gt	20	40m	10MtØ	100	50	100	28		MP5s
51	3421J	30	105m	50u	Δ	500f	500f§	20	100Gt	20	20m	250kØ	94	300m	80 †	07		MP5f
52	OA106	30	105m	50u	1.0m§Δ		75p§	24	100Gt	20	2.0kØ		93	5.0	85	58		MP14t
53	OA108	30	105m	50u	1.0m§Δ		75p§	24	100Gt	20	2.0kØ		93	5.0	85	58		MP14t
54	F418C	30	105m	50u	2.0m§		1.0p§	20	1.0T	20	10m	500kØ	88	500m	80 †	5C		MP260
55	OA102	30	105m	65u	1.0m§Δ		25p§†	24	10Gt	20	2.0kØ		93	5.0	65	28		MP14t
56	OA109	30	105m	100u	5.0m§Δ		100p§	24	100Gt	20	2.0kØ		93	5.0	65	28		MP14t
57	CA3060AD*†	30	108m		5.0m§	1.0u§	5.0u§	24	10k	24	150u	110kt		8.0 †	70	5C	A180	Δ001AE
58	CA3060BD*†	30	108m		5.0m§	1.0u§	5.0u§	24	10k	24	150u	110kt		8.0 †	70	5C	A180	Δ001AE
59	CA3060E*†	30	108m		5.0m§	1.0u§	5.0u§	24	10k	24	150u	110kt		8.0 †	70	48	A180	Δ001AC
60	709AE	30	108m	10u	2.0m	250n	750n	16	350k	24	10kØ	1.0kt	88		80	5C	A043	TO99
61#	SFC2709AP	30	108m	10u§	3.0m	250nØ	600nØ	16	350k	24	10kØ		87	250mt	80	5C	A003	TO91
62▼	SN52709AFA	30	108m	10u	3.0m	250nØ	600nØ	16	350k	24	10kØ		93 †		80	5C	A003	FP2t
63▼	SN52709AJ	30	108m	10u	3.0m	250nØ	600nØ	16	350k	24	10kØ		93 †		80	5C	A003	TO116
64▼	SN52709AJA	30	108m	10u	3.0m	250nØ	600nØ	16	350k	24	10kØ		93 †		80	5C	A003	MP381
65▼	SN52709AJP	30	108m	10u	3.0m	250nØ	600nØ	16	350k	24	10kØ		93 †		80	5C	A003	MP383
66	SN52709AL	30	108m	10u	3.0m	250n	600n	16	350k	24	10kØ		93		80	5C	A003	TO99
67	LM709AH	30	108m	15uØ	3.0m	250nØ	600nØ	16	350k	24	10kØ		88	250mt	80	5C	A003	TO99
68	709-11-5B	30	108m	25u	3.0m	.25u	.60u	16	350k	24	10kØ	10kt	88	.70	80	5C	A003	TO99
69	MIC709AC	30	108m	25u	3.0m	50n§	200n§	16	350k	24			87		80	5C	A003	CN1
70	MIC709AD	30	108m	25u	3.0m	50n§	200n§	16	350k	24			87		80	5C	A003	MP14m
71	TOA4709F	30	108m	25u	3.0m	.25u	.60u	16	350k	24	10kØ	10k	88	.30 †	80	5C	A003	TO91
72	TOA4709J	30	108m	25u	3.0m	250n	600n	16	350k	24	10kØ	10k	88	300mt	80	5C	A003	TO116
73	TOA4709V	30	108m	25u	3.0m	250n	600n	16	350k	24	10kØ	10k	88	300mt	80	5C	A003	TO99
74	uA709ADM	30	108m	25u	3.0m	250n	600n	16	350k	24	10kØ		88		80	5C	A003	TO116
75	uA709AFM	30	108m	25u	3.0m	250n	600n	16	350k	24	10kØ		88		80	5C	A003	TO91
76	uA709AHM	30	108m	25u	3.0m	250m	600n	16	350k	24	10kØ		88		80	5C	A003	TO99
77	HA1S2620	30	111m		6.0m	35n	35n	22	65M	20	30m	100M§t	100	25	80	5C	A232	TO116
78	HA2A2620	30	111m		6.0m	35n	35n	22	65M	20	30m	100M§t	100	25	80	5C	A232	TO99
79	HA2A2600	30	111m	5.0ut	6.0m	30n	30n	22	100M	20	30m	12MØ†	100	8.0	80	5C	A232	TO99
80	HA9W2600	30	111m	5.0ut	6.0m	30n	30n	22	100M	20	30m	12MØ†	100	8.0	80	5C	A232	TO91
81	OA125	30	115m	10u	3.0m§	250n§			5.0k	4.6	100 Ø	6.0M	100	180		28		MP339
82	FS125	30	115m	25u	5.0m	2.5u			10k	4.6	100 Ø	4.0M	100	250		07		MP339
83	P85A	30	120mt		Δ	50n§		22 †	330kt	22 †	4.4mt	2.0MØ	93	600mt	86	28		CB1a
84	SN72771L	30	120m		1.4m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A185	TO99
85	HA1S2622	30	120m		7.0m	60n	60n	22	40M	20	20m	100M§t	98	20	74	5C	A232	TO116
86	HA1S2625	30	120m		7.0m	40n	40n	22	40M	20	20m	100M§t	98	20	74	07	A232	TO116
87	HA2A2602	30	120m		7.0m	60n	60n	22	40M	20	20m	12MØ†	98	8.0	74	5C	A232	TO99
88	HA2A2605	30	120m		7.0m	40n	40n	22	40M	20	20m	12MØ†	98	8.0	74	07	A232	TO99
89	HA2A2622	30	120m		7.0m	60n	60n	22	40M	20	20m	100M§t	98	20	74	5C	A232	TO99
90	HA2A2625	30	120m		7.0m	40n	40n	22	40M	20	20m	100M§t	98	20	74	07	A232	TO99
91	HA9W2602	30	120m		7.0m	60n	60n	22	40M	20	20m	12MØ†	98	8.0	74	5C	A232	TO91
92	HA9W2605	30	120m		7.0m	40n	40n	22	40M	20	20m	12MØ†	98	8.0	74	07	A232	TO91
93▼	SN52770FA	30	120m		7.0m	5.0n	35n	24	100Mt	24	2.0kØ			2.5 †		5C	A184	FP22
94▼	SN52770JA	30	120m		7.0m	5.0n	35n	24	100Mt	24	2.0kØ			2.5 †		5C	A184	MP381
95▼	SN52770JP	30	120m		7.0m	5.0n	35n	24	100Mt	24	2.0kØ			2.5 †		5C	A184	MP383
96▼	SN52771FA	30	120m		7.0m	5.0n	35n	24		24	2.0kØ	1.3MØt	94	2.5 †	80	5C	A185	FP22
97▼	SN52771JA	30	120m		7.0m	5.0n	35n	24		24	2.0kØ	1.3MØt	94	2.5 †	80	5C	A185	MP381
98▼	SN52771JP	30	120m		7.0m	5.0n	35n	24		24	2.0kØ	1.3MØt	94	2.5 †	80	5C	A185	MP383
99♦	MC1456CG	30	120m		12m§	30n§	90n§	21	3.0Mt	20	2.0kØ	1.0MØt	88	2.5 †	110 †	07	A100	CN1k
100▼	MC1456CL	30	120m		12m§	30n§	90n§	21	3.0Mt	20	2.0kØ	1.0MØt	88	2.5 †	110 †	07	A100	TO116
101	SG1456CT	30	120m		12m§	30n§	90n§	21	3.0Mt	20	2.0kØ	1.0MtØ	88	2.5 †	110 †	07	A100	TO99
102▼	SN72770FA	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ			2.5 †		07	A184	FP22
103▼	SN72770JA	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ			2.5 †		07	A184	MP381
104	SN72770L	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A184	TO99
105	SN72770N	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A184	MP39h
106	SN72770P	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A184	MP267
107▼	SN72771FA	30	120m		14m	14n	40n	22		22	2.0kØ	1.3MØt	91	2.5 †	70	07	A185	FP22
108▼	SN72771JA	30	120m		14m	14n	40n	22		22	2.0kØ	1.3MØt	91	2.5 †	70	07	A185	MP381
109	SN72771N	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A185	MP39h
110	SN72771P	30	120m		14m	14n	40n	22	100Mt	22	2.0kØ	1.3MtØ	90	2.5 †	70	07	A185	MP267

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	A180B	30	120m†	500n	100u§		4.0n§	20	5.0M	20	2.5m	1.0MØ†	109	600m	100 †	28	A053a	MP5f
2	A180K	30	120m†	500nØ	100u§		4.0n§	20	5.0M	20	2.5m	1.0MØ†	109	600m	100 †	28	A053a	MP5f
3	monoOP05AJ	30	120m	500n	240u	4.0n	4.0n	27	30M	25	10kØ	1.2MtØ	109	250m†	114	5C	A174a	TO99
4	monoOP05AL	30	120m	500n	240u	4.0n	4.0n	27	30M	25	10kØ	1.2MtØ	109	250m†	114	5C	A172c	FP27
5	monoOP05AY	30	120m	500n	240u	4.0n	4.0n	27	30M	25	10kØ	1.2MtØ	109	250m†	114	5C	A173c	TO116
6	10M3	30	120m	500n	100m	40p		100mΔ	1.0M	100m	470kØ		54			58		MP112
7	monoOP05EJ	30	120m	600n	600u	5.3n	5.5n	27	15M	25	10kØ	1.2MtØ	106	250m†	110	07	A174a	TO99
8	monoOP05EY	30	120m	600n	600u	5.3n	5.5n	27	15M	25	10kØ	1.2MtØ	106	250m†	110	07	A173c	TO116
9▼	AMSS725AJ	30	120m	800n	180u	4.0nØ	120nØ	27	800k	25	10kØ	1.0MtØ	120	7.5m†	120	5C	A174a	TO99
10	SSS725AJ	30	120m	800n	180u	4.0nØ	120nØ	27	800k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A174a	TO99
11	SSS725AL	30	120m	800n	180u	4.0nØ	120nØ	27	800k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A172c	TO91
12	SSS725AP	30	120m	800n	180u	4.0nØ	120nØ	27	800k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A173c	TO116
13	9815	30	120m	1.0u	30u	10n	100n	20	1.0M	20	20m	200k§	120	3.0m	100	58		MP268
14	9729	30	120m	1.0u	100u	10p	30p	20	1.0T	20	40m	1.0M§	140	1.0	90	58		MP268
15	9733	30	120m	1.0u	100u	10f	100f	22	10T	20	20m	3.0M§	100	6.0	110	59		MP268
16	3521L	30	120m	1.0u	250u§	2.0pt§	10p§	20	100Gt	20	20m	1.5MtØ	100	1.0	90 †	07		TO99
17	monoOP10EY*	30	120m	1.0u	600u	5.3n	5.5n	27	15M	25	10kØ	1.2MtØ	106	250m†	110	07		TO116
18	monoOP05J	30	120m	1.0u	700u	5.6n	6.0n	27	20M	25	10kØ	1.2MtØ	106	250m†	114	5C	A174a	TO99
19	monoOP05L	30	120m	1.0u	700u	5.6n	6.0n	27	20M	25	10kØ	1.2MtØ	106	250m†	114	5C	A172c	FP27
20	monoOP05Y	30	120m	1.0u	700u	5.6n	6.0n	27	20M	25	10kØ	1.2MtØ	106	250m†	114	5C	A173c	TO116
21	monoOP10AY*	30	120m	1.0u	700u	5.6n	6.0n	27	20M	25	10kØ	1.2MtØ	106	250m†	114	5C		TO116
22	monoOP10Y*	30	120m	1.0u	700u	5.6n	6.0n	27	20M	25	10kØ	1.2MtØ	106	250m†	114	5C		TO116
23	A180J	30	120m†	1.5uØ	250u§		4.0n§	20	5.0M	20	2.5m	1.0MØ†	109	600m	100 †	28	A053a	MP5f
24	A180A	30	120m†	1.5u	1.0m§		4.0n§	20	5.0M	20	2.5m	1.0MØ†	109	600m	100 †	28	A053a	MP5f
25	3521K	30	120m	2.0u	250u§	2.0pt§	15p§	20	100Gt	20	20m	1.5MtØ	100	1.0	90 †	07		TO99
26▼	AMSSS725EJ	30	120m	2.0u	600u	7.0nØ	100nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	120	07	A174a	TO99
27	SSS725EJ	30	120m	2.0u	600u	7.0nØ	100nØ	27	700k	25	10kØ	1.0MØ†	120	7.5m†	120	07	A174a	TO99
28	SSS725EP	30	120m	2.0u	600u	7.0nØ	100nØ	27	700k	25	10kØ	1.0MØ†	120	7.5m†	120	07	A173c	TO116
29▼	AMSSS725J	30	120m	2.0u	700u	18nØ	180nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	120	5C	A174a	TO99
30	SSS725J	30	120m	2.0u	700u	18nØ	180nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A174a	TO99
31	SSS725L	30	120m	2.0u	700u	18nØ	180nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A172c	TO91
32	SSS725P	30	120m	2.0u	700u	18nØ	180nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	120	5c	A173c	TO116
33▼	AM725AHM	30	120m	2.0u	750u	18n	180n	27	1.5Mt	25	10kØ		120		120	5C	A107	TO99
34	uA725AHM	30	120m	2.0u	750u	18n	180n	27	1.5Mt	25	10kØ		120		120	5C	A107	TO99
35▼	AMSSS725BJ	30	120m	2.8u	1.0m	14nØ	150nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	110	28	A174a	TO99
36	SSS725BJ	30	120m	2.8u	1.0m	14nØ	150nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	110	28	A174a	TO99
37	SSS725BL	30	120m	2.8u	1.0m	14nØ	150nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	110	28	A172c	TO91
38	SSS725BP	30	120m	2.8u	1.0m	14nØ	150nØ	27	700k	25	10kØ	1.0MtØ	120	7.5m†	110	28	A173c	TO116
39	9825	30	120m	3.0u	100u	10n	100n	20	100M	20	20m	1.0M§	100	1.0	100	58		MP268
40	118K	30	120m	5.0u	Δ	3.0n	35n	20	1.0M	20	10m	1.5MØ	108	6.0	86	05		MP75
41	3521J	30	120m	5.0u	250u§	2.0pt§	20p§	20	100Gt	20	20m	1.5MtØ	100	1.0	90 †	07		TO99
42	3521R	30	120m	5.0u	250u§	2.0pt§	20p§	20	100Gt	20	20m	1.5MtØ	100	1.0	90 †	07		TO99
43	AD504JH	30	120m	5.0u	2.5m	40n	200n	20		24	5.0m	300k	105	120m	94	07		TO99
44	LH0041CG	30	120m	5.0u	7.5m	500n	1.0u	24	300k	26	100 Ø		86	1.0	70	28	A216	CN18c
45	LH0041CJ	30	120m	5.0u	7.5m	500n	1.0u	24	300k	26	100 Ø		86	1.0	70	28	A216	MP334
46	112B	30	120m	10u	Δ	10n	100n	20	1.0M	20	10m	1.5M	92	1.0	86	28		MP199e
47	3521H	30	120m	10u	500u§	2.0pt§	20p§	20	100Gt	20	20m	1.5MtØ	93	1.0	90 †	07		TO99
48	41KV	30	120m	10u	2.0m§Δ	4.0p	250n§	30	10Tt	20	10m	1.0MtØ	100 †	3.0	80	28		MP5ab
49▼	AM725HL	30	120m	10u	2.5m	40nØ	400nØ	27	3.0mt	24	10kØ		83		100	28	A071	TO99
50	9734	30	120m	15u	1.0mΔ	5.0p	20p	20	1.0T	20	20m	1.0M§	100	6.0	80	58		MP268
51	HA9W2201A	30	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A090	TO91
52	RM709D	30 ♦	120m	15u	4.0m	300n	1.0u	16	400kt	24	10kØ		88	150m	70	5C	A003	MP40
53	RM709Q	30 ♦	120m	15u	4.0m	300n	1.0u	16	400kt	24	10kØ		88	150m	70	5C	A003	FP2k
54	RM709T	30 ♦	120m	15u	4.0m	300n	1.0u	16	400kt	24	10kØ		88	150m	70	5C	A003	TO99
55	112A	30	120m	20u	Δ	10n	100n	20	1.0M	20	10m	1.5M	92	1.0	86	28		MP199e
56	118A	30	120m	20u	Δ	3.0n	35n	20	1.0M	20	10m	1.5MØ	108	6.0	86	28		MP75
57	3506J	30	120m	20ut	7.0m	40n	40n	22	40M	20	20m		98	4.0	74	06	A174g	TO99
58▼	1849	30	120m	25u	1.0m	150n	150n	20	200k	20	8.0m	1.5M	98	6.0	69	28		MP35a
59	41JV	30	120m	25u	2.0m§Δ	4.0p	500n§	30	10Tt	20	10m	1.0MtØ	100 †	3.0	80	28		MP5ab
60	41LV	30	120m	25u	2.0m§Δ	4.0p	150n§	30	10Tt	20	10m	1.0MtØ	100 †	3.0	80	28		MP5ab
61	LH0042CD	30	120m	25u§	20m§	10p§	50p§	24	1.0Tt	20	20m	1.0MtØ	88	1.0	70	28	A223	MP148
62	LH0042CF	30	120m	25u§	20m§	10p§	50p§	24	1.0Tt	20	20m	1.0MtØ	88	1.0	70	28	A223	FP18
63	LH0042CH	30	120m	25u§	20m§	10p§	50p§	24	1.0Tt	20	20m	1.0MtØ	88	1.0	70	28	A223	CN17g
64	D10	30	120m†	30u	Δ	100n		14	200k	22	4.4m	1.0MØ	92 †	600m	74 †	28		MP5h
65	1321	30	120m	30ut	5.0m§	25n§	25n§	24	40M	20	20m	100Mt§	98	20	100 †	07		TO99
66	1321-01	30	120m	30ut	5.0m§	25n§	25n§	24	40M	20	20m	100Mt§	98	20	100 †	5c		TO99
67	3508J	30	120m	30ut	7.0m	40n	40n	22	40M	20	20m	100M§t	98	20	74	06	A174g	TO99
68	LH0021CK	30	120m	30u	7.5m	500n	1.0u	24	300k	26	100 Ø		86	1.0	70	28	A216	CN22d
69#	SFC2307	30	120m	30u	10m	70n	300n		500k	24				500m†	70	07		TO99
70	P85AU	30	130m	6.0ut§	Δ		100n	22	330k	22	4.4m	2.0MØ	106	600m	86	28		MPØ
71	ATF401	30	132m†	10u	10m§	10n§	50n§	22	200k	22	4.4m	2.0MØ	100	10 Ø	80	28	A023	MP31
72	232B	30	135m	100n	10uΔ		50p	SE	300k	20	8.0m	500kØ	140	200m		28		MP77
73	232K	30	135m	100n	10uΔ		50p	SE	300k	20	8.0m	500kØ	140	200m		05		MP77
74	A230L	30	135m†	100nØ	10u§Δ		50p§	SE	400kt	20	8.0m	1.0MtØ	140	200m		28	A053b	MP5aw
75	232A	30	135m	250n	15uΔ		100p	SE	300k	20	8.0m	500kØ	140	200m		28		MP77
76	232J	30	135m	250n	15uΔ		100p	SE	300k	20	8.0m	500kØ	140	200m		05		MP77
77	A230J	30	135mt	250nØ	15u§Δ		100p§	SE	400kt	20	8.0m	1.0MtØ	140	200m		28	A053b	MP5aw
78	A230K	30	135mt	250nØ	15u§Δ		50p§	SE	400kt	20	8.0m	1.0MtØ	140	200m		28	A053b	MP5aw
79	144K	30	135m	30u	2.0m§Δ	25p§	100p§	17 §	100G	20	10m	4.0MtØ	94	6.0	60 †	16		MP75
80	144A	30	135m	100u	2.0m§Δ	25p§	100p§	17 §	100G	20	10m	4.0MtØ	94	6.0	60 †	28		MP75
81	LH0020G	30	150m		4.0m	100n	500n	24	600k	28	300 Ø		92		90	5C	A243	CN18c
82	ULS2139D	30	150m		4.5m	80n	800n	22	150k	20	1.0kØ	20k	94	1.0	80	5C	A174e	TO99
83	ULS2139G	30	150m		4.5m	80n	800n	22	150k	20	1.0kØ	20k	94	1.0	80	5C	A172d	FPØ
84	ULS2139H	30	150m		4.5m	80n	800n	22	150k	20	1.0kØ	20k	94	1.0	80	5C	A173f	MPØ
85	ULS2139M	30	150m		4.5m	80n	800n	22	150k	20	1.0kØ	20k	94	1.0	80	5C	A200b	MPØ
86	MCC1558*	30	150m		5.0m§	200n§	500n§	26 †	1.0Mt	24	10kØ	1.1MtØ	93	800mt	90 †	5C	A014	FC5
87	MCCF1558	30	150m		5.0m§	200n§	500n§	26 †	1.0Mt	24	10kØ	14kt	94	800mt	90 †	5C	A140a	FC20
88	RM1558T	30	150m		5.0m	200n	500n	26	1.0M	24	10kØ	1.1M	93	800m	90	5C	A014	TO99
89	LM1558-883	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1MØ†		800mt	70	5C		TO99
90	LM1558H*	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ		93		70	5C	A042h	CN1d
91	S5558T*	30	150m		6.0m	500n	1.5u	24	300k	24	10kØ	1.1MtØ	96	800mt	70	5C	A140	CN1g
92	A245	30	150m	100n	Δ	30p	30p		300k	20	10m	400kØ	140	200m		28	A053b	MP199
93	233L	30	150m	100n	20uΔ	500nØ	50p		600kt	20	10m	500kt	140	250m		28		MP5au
94	3440L	30	150m	250n	100u§	2.0n	25n§	20	4.0Mt	20	20m	1.0MØ	110	600m	100 †	07		MP5ca
95	A186	30	150m	250n	100u§		4.0n§	20	5.0M	20	20m	500kØ	109	600m	96	28	A053a	MP5f
96	1703-01	30	150m	300n	15u§	25p§	50p§	1.0	800kt	20	10m	1.0MØ†	120	250m	60	07		MP5bv
97	233K	30	150m	300n	20uΔ	1.0pØ	50p		600kt	20	10m	500ktØ	140	250m		28		MP5au
98	A233	30	150m	500n	25u§		50p§	200m	600k	20	10m	500kØ	140	200m		28	A053b	MP5bx
99	3440K	30	150m	500n	100u§	2.0nt	25n§	20	4.0Mt	20	20m	1.0MØ	110	600m	100 †	07		MP5ca
100	H2000BL	30	150m	500n	100u		80p	SE	600k	20	40m	1.0M	120	6.0 †		28		MP2e
101	A185	30	150m	500n	250u§		4.0n§	20	5.0M	20	20m	500kØ	109	600m	96	28	A053a	MP5f
102	1703	30	150m	1.0u	40u§	25p§	50p§	1.0	800kt	20	10m	1.0MØ†	120	250m	60	07		MP5bv
103	233J	30	150m	1.0u	50uΔ	2.0pØ	50p		600kt	20	10m	500ktØ	140	250m		28		MP5au
104	9738	30	150m	1.0u	100u	10p	30p	20	1.0T	20	20m	30M§	94	100	90	58		MP268
105	3440J	30	150m	1.5u	250u§	2.0nt	25n§	20	4.0Mt	20	20m	1.0MØ	110	600m	100 †	07		MP5ca
106	monoOP05CJ	30	150m	1.5u	1.6m	8.0n	9.0n	26	8.0M	25	10kØ	1.2MtØ	102	250m†	100	07	A174a	TO99
107	monoOP05CY	30	150m	1.5u	1.6m	8.0n	9.0n	26	8.0M	25	10kØ	1.2MtØ	102	250m†	100	07	A173c	TO116
108	monoOP10CY*	30	150m	1.5u	1.6m	8.0n	9.0n	26	8.0M	24	10kØ	1.2MtØ	102	250m†	100	07		TO116
109	146K	30	150m	2.0u	700uΔ	10p§	20p§	20	100G	20	40m	5.0MtØ	100	10	80 †	16		MP5ac
110	uA725EHC	30	150m	2.0u	750u	18n	180n	27	1.5Mt	25	10kØ		120		120	07	A107	TO99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	uA725HC	30	150m	2.0u	1.5m	20n	100n	27	1.5MT	24	10kØ		120		94	07	A107	TO99
2▼	AM725DC	30	150m	2.0uT	3.5m	50n	250n	27	3.0mT	24	10kØ		70 †		96	07	A071	MP151a
3▼	AM725HC	30	150m	2.0uT	3.5m	50nØ	250nØ	27	3.0mT	24	10kØ		87		96	07	A071	TO99
4	LM725CH	30	150m	2.0uT	3.5m	35nØ	125nØ	27	1.5MT	24	10kØ		108		115 †	07	A107	TO99
5	LM725CN	30	150m	2.0uT	3.5m	35nØ	125nØ	27	1.5MT	24	10kØ		108		115 †	07	A107	MP189
6	ZEL1-02	30	150m	2.5u	Δ	10n	50n	20	1.0M	20	10m	1.5M§	112	6.0	86	28		MP6g
7	MCC1539	30	150m	3.0uT§	3.0m§	60n§	500n§	24 †	300kT	20	1.0kØ	50kt	93	4.2 †	110 †	5C	A037	FC4
8	SSS725CJ	30	150m	4.5u	1.6m	25nØ	180nØ	27	500k	24	10kØ	1.0MØT	114	7.5mT	100	07	A174a	TO99
9	SSS725CP	30	150m	4.5u	1.6m	25nØ	180nØ	27	500k	24	10kØ	1.0MØT	114	7.5mT	100	07	A173c	TO116
10	3268-14	30	150m	5.0u			50n§	20	1.0MT	20	40m	1.0MØ	114	6.0	86	28		MP5aw
11	ZEL1-03	30	150m	5.0u	Δ	10n	50n	20	1.0M	20	10m	1.5M§	112	6.0	86	28		MP6g
12	H9020A	30	150m	5.0u	.37mΔ	60n	.15u	20	500k	20	70m	2.5M	95	2.2 †	90	4A		MP5ac
13	H9020B	30	150m	5.0u	.37mΔ	60n	.15u	20	500k	20	70m	2.5M	95	2.2 †	90	4A		MP2d
14	H9000A	30	150m	5.0u	.50mΔ	65n	.25u	20	500k	20	200m	15M	95	10 †	90	5C		MP5ac
15	LH0062CD	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	70	28	A219	TO116
16	LH0062CH	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	70	28	A219	CN1f
17	LH0062D883	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	80	5C	A219	MP148
18	LH0062D	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	80	5C	A219	MP148
19	LH0062H883	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	80	5C	A219	CN1f
20	LH0062H	30	150mT	5.0u§T	1.0m§T	1.0p§T	5.0p§T	30	1.0TT	26 †	20mT	100 †	100 †	90 †	80	5C	A219	CN1f
21	RC725T	30	150m	5.0uT	2.5m	35n	125n	27	1.5MT	20	2.0kØ		130		120 †	07	A107	TO99
22	MC1539G	30	150m	5.0uT	4.0m	75n	500n§	22	150k	20	1.0kØ	20k	94	4.2 †	80	5C	A037	TO99
23	MC1539L	30	150m	5.0uT	4.0m	75n	500n§	22	150k	20	1.0kØ	20k	94	4.2 †	80	5C	A037	TO116
24#	SFC2761C	30	150mT	6.0u	7.5m§	330n§	1.5u§	27	200kT	24	620 Ø		90 †	9.0 †	80	07	A125a	CN44
25#	SFC2761DC	30	150mT	6.0u	7.5m§	330n§	1.5u§	27	200kT	24	620 Ø		90 †	9.0 †	80	07	A125a	MP279
26	146J	30	150m	7.0u	700uΔ	10p§	30p§	20	100G	20	40m	5.0MtØ	100	10	80 †	16		MP5ac
27	ZEL1-04	30	150m	10u	Δ	10n	50n	20	1.0M	20	10m	1.5M§	112	6.0	86	28		MP6g
28	H9010A	30	150m	10u	.60mΔ	50n	.25u	20	150k	20	70m	2.5M	95	2.2 †	80	28		MP5ac
29	H9010B	30	150m	10u	.60mΔ	50n	.25u	20	150k	20	70m	2.5M	95	2.2 †	80	28		MP2d
30	H6000	30	150m	10u	1.0mΔ	13n	60n	20	4.0M	20	5.0m	3.5M	90	1.6 †	75	5C		MP6e
31	H6000A	30	150m	10u	1.0mΔ	13n	60n	20	4.0M	20	5.0m	3.5M	90	1.6 †	75	5C		MP5n
32	1616	30	150mT	15u	Δ	10nT	20n	20 †	200kT	20	20m	1.5MØ	100	1.5	86	28		MP5y
33▼	2312-2	30	150m	15u		10n	10n	20	500k	20	20m	2.0M	106	1.2	80	28		MP394
34	uA741ADM	30 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	5C	A241	TO116
35	uA741AFM	30 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	5C	A241	TO91
36	uA741AHM	30 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	5C	A241	TO99
37	uA741EDC	30 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	07	A241	TO116
38	uA741EHC	30 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	07	A241	TO99
39	MC1558G*	30	150m	15uT	6.0m	500n	1.5u	24	300k	24	10kØ	14kt	93	800mT	70	5C	A014	TO99
40	MC1558L*	30	150m	15uT	6.0m	500n	1.5u	24	300k	24	10kØ	14kT	93	800mT	70	5C	A014	MP139a
41#	SFC2458M*	30	150m	15uT	6.0m	500n	1.5u	24	300k	24	10kØ	14kT	93	800mT	70	5C	A014	TO99
42	SG1558T	30	150m	15uT	6.0m	500n	1.5u	24	300k	24	10kØ	14kT	93	800mT	70	5C	A014	TO99
43	162	30	150m	20u§	Δ	10p§	50p§	20	1.0M	20	8.0m	4.0M§	86	5.0	73	28		MP57
44	3269-14	30	150m	20u			50n§	20	1.0MT	20	40m	1.0MØ	114	6.0	86	28		MP5aw
45	A101	30	150mT	20u§	Δ	50n§	200n§	20	250kT	20	10m	1.0M§	83	1.2 †	90 †	28		MP5bj
46	A103	30	150mT	20uØ	Δ		40p§	20	100GT	20	10m	2.0MØ	100	10	100	28	A053	MP5f
47	ZEL1	30	150mT	20u	Δ		50n§	20	1.0MT	20	10m	1.5MtØ	113	6.0	86	28		MP6g
48	ZEL1AC	30	150mT	20u	Δ		50n§	20	1.0MT	20	40m	1.5MtØ	113	4.5	86	28		MP5bq
49	ZEL1C	30	150mT	20u	Δ		50n§	20	1.0MT	20	40m	1.5MtØ	113	4.5	86	28		MP6g
50	ADO40	30	150m	20u	5.0mΔ§	10n§	45n§	20	300k	20	40m	1.8M§	98	600m	86	28	A054	MP4a
51	1028	30	150m	20u	10m§T	3.0n§T	35n§	20	1.0MT	20	10m	1.0MØ	108	6.0	80	28		MP5bu
52	A127	30	150mT	25uØ	1.0m§Δ		100f§	20	10TT	20	10m	100kØ	106	200m	100 †	28	A097	MP5bg
53	H7000	30	150m	25u	2.5mΔ	50p	100p§	20	100k	20	6.6mT	2.0M	86	2.0 †	65	5C		MP6e
54	H7000A	30	150m	25u	2.5mΔ	50p	100p§	20	100k	20	6.6mT	2.0M	86	2.0 †	65	5C		MP5n
55▼	2312-3	30	150m	30u		25p	50p	20	100G	20	20m	1.0M	90	6.0	60	28		MP394
56	9718	30	150m	30u	10m	15p	50p	20	1.0T	20	20m	40M§	94	100	20	58		MP6p
57	9721	30	150mT	30u	10mΔ	15p	50p	20	1.0T	20 †	20m	1.0MØ	110	10 †	20	58		MP6g
58	ADO41	30	150m	40u	Δ§	10n§	45n§	20	300k	20	40m	1.8M§	98	600m	86	28	A054	MP4a
59	ADO44	30	150m	40u	Δ§	10nT§	100n§	10	200k	20	2.0m	450k§	77	200m	74 †	28	A053	MP42a
60	1021	30	150m	50u	Δ	10p§		20	100GT	20	40m	2.0MØ	100	6.0 †	100 †	28		MP5ba
61	A100	30	150mT	50uØ	Δ		20p§	20	100G	20	5.0m	2.0MØ	100	10	60 †	28		MP5f
62	A102	30	150mT	50uØ	Δ		40p§	20	100GT	20	10m	2.0MØ	100	10	100	28	A053	MP5f
63	A126	30	150mT	50uØ	1.0m§Δ		100f§	20	10TT	20	10m	100kØ	106	200m	100 †	28	A097	MP5bg
64	809BE	30	150m	50u§	10m§	500n	1.5u	20	100k	20	5.0kØ	300 †	80		70	5C	A019	TO99
65	809BH	30	150m	50u§	10m§	500n	1.5u	20	100k	20	5.0kØ	300 †	80		70	5C	A019	FP5
66▼	2317-2	30	150m	60u		10n	30n	20	300k	20	10m	1.0M	92	1.2	80	07		MP394
67▼	2317-3	30	150m	75u		25p	50p	20	100G	20	10m	1.0M	89	1.2	60	07		MP394
68	TOA1740V	30	156m		20n§	40n§T	200p§	20	1.0TT	24	10kØ	3.0MØT	88	6.0 †	64	5C	A131	TO99
69	ICL8007MTA	30	156m		30m	500f§T		20	10T	24	10kØ	1.0MTØ	93	6.0 †	70	5C	A131	CN1f
70	S5740T	30	156m		30m	185pT		20	1.0TT	20	2.0kØ	3.0MØT	93	6.0 †	64	5C		CN1g
71	uA740HM	30	156m		30m	185pT		20	1.0TT	24	10kØ	3.0MØT	94	6.0 †	64	5C	A131	TO99
72	ICL8043MDE	30	156m	75u	30m	500f§T		20	1.0T	24	10kØ	1.0MØT	100	6.0 †	70	5C	A224	MP341
73	MCC1709	30	165m		5.0m§	200n§	500n§	20 †	400kT	24	10kØ		87	250mT	90 †	5C	A003	FC9
74	MCCF1709	30	165m		5.0m§	200n§	500n§	20 †	400kT	24	10kØ		88	12 †	90 †	5C	A043	FC21
75	LM709H883	30	165m		6.0m	500n	1.5u	16		24	10kØ		88		70	5C		TO99
76#	TAA522%	30	165m	3.0u	1.0m	50n	200n	10	100k	14	10kØ		93		90	5C	A043	TO99
77	709BE	30	165m	3.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	1.0MØ	88		70	5C	A043	TO99
78	709BH	30	165m	3.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	1.0MØ	88		70	5C	A043	FPØ
79	MC1709F	30	165m	3.0uT	6.0m	200n§	500n§	16	150k	24	10kØ	10k	88	250mT	70	5C	A043	TO91
80	MC1709G	30	165m	3.0uT	6.0m	200n§	500n§	16	150k	24	10kØ	10k	88	250mT	70	5C	A043	TO99
81	MC1709L	30	165m	3.0uT	6.0m	200n§	500n§	16	150k	24	10kØ	10k	88	250mT	70	5C	A043	MP139a
82	MCB1709F	30	165m	3.0uT	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87	250mT	70	5C	A003	FP21
83	MCBC1709	30	165m	3.0uT	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87	250mT	70	5C	A003	FC1
84	MIC709-1	30	165m	3.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ	10k	88	200 Ø	70	5C	A003	CN1
85#	MT709	30	165m	3.0uT	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87	250mT	70	5C	A003	CN1c
86#	SFC2709EM	30	165m	3.0u§T	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87	250mT	70	5C	A003	TO116
87#	SFC2709PM	30	165m	3.0u	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87	250mT	70	5C	A003	TO91
88▼	SN52709FA	30	165m	3.0uT	6.0m	500nØ	1.5nØ	16	150k	24	10kØ		93 †		70	07	A003	FP2t
89▼	SN52709J	30	165m	3.0uT	6.0m	500nØ	1.5nØ	16	150k	24	10kØ		93 †		70	07	A003	TO116
90▼	SN52709JA	30	165m	3.0uT	6.0m	500nØ	1.5nØ	16	150k	24	10kØ		93 †		70	07	A003	MP381
91▼	SN52709JP	30	165m	3.0uT	6.0m	500nØ	1.5nØ	16	150k	24	10kØ		93 †		70	07	A003	MP383
92	SN52709L	30	165m	3.0uT	6.0m	500n	1.5u	16	150k	24	10kØ		93		70	5C	A003	TO99
93	709-1-5B	30	165m	6.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ	10kt	88	.70	70	5C	A003	TO99
94	LM709H	30	165m	6.0uT	6.0m	500n	1.5u	16	150k	24		1.0MØ	88	250mT	70	5C	A003	CN1a
95	LTA709	30	165m	6.0uT	6.0m	500nØ	1.5uØ	16	150k	24	10kØ		87		70	5C		MP255
96	S5709G	30	165m	6.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ		88		70	5C	A043	TO91
97	S5709T	30	165m	6.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ		88		70	5C	A043	TO99
98#	TL1709	30	165m	6.0uT	6.0m	500nØ	1.5uØ	16	150k	24	10kØ	10k	88	250mT	70	5C	A043	TO99
99	TOA1709F	30	165m	6.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ	10k	88	.30 †	70	5C	A003	TO91
100	TOA1709J	30	165m	6.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	10k	88	300mT	70	5C	A003	TO116
101	TOA1709V	30	165m	6.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	10k	88	300mT	70	5C	A003	TO99
102	TOA3709F	30	165m	6.0uT	6.0m	.50u	1.5u	16	150k	24	10kØ	10k	88	.30 †	70	07	A003	TO91
103	TOA3709J	30	165m	6.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	10k	88	500mT	70	07	A003	TO116
104	TOA3709V	30	165m	6.0uT	6.0m	500n	1.5u	16	150k	24	10kØ	10k	88	300mT	70	07	A003	TO99
105	TOA7709F	30	165m	6.0uT	6.0m	30n	90n	16	3.0M	24	10kØ	10k	88	.30 †	70	5C	A003	TO91
106	TOA7709J	30	165m	6.0uT	6.0m	30n	90n	16	3.0M	24	10kØ	10k	88	300mT	70	5C	A003	TO116
107	TOA7709V	30	165m	6.0uT	6.0m	30n	90n	16	3.0M	24	10kØ	10k	88	300mT	70	5C	A003	TO99
108	TOA7809F	30	165m	6.0uT	6.0m	6.0n	12n	16	25M	24	10kØ	10k	88	.30 †	70	5C	A003	TO91
109	TOA7809J	30	165m	6.0uT	6.0m	6.0n	12n	16	25M	24	10kØ	10k	88	300mT	70	5C	A003	TO116
110	TOA7809V	30	165m	6.0uT	6.0m	6.0n	12n	16	25M	24	10kØ	10k	88	300mT	70	5C	A003	TO99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	uA709DM	30	165m	6.0u	6.0m	500n	1.5u	16	150k	24	10kØ		88		70	5C	A003	TO118
2	uA709FM	30	165m	6.0u	6.0m	500n	1.5u	16	150k	24	10kØ		88		70	5C	A003	TO91
3	uA709HM	30	165m	6.0u	6.0m	500n	1.5u	16	150k	24	10kØ		88		70	5C	A003	TO99
4#	ZLD709	30	165m	6.0u†	6.0m	500n§	1.5u	16	150k	20			87		70	5C	A081	TO78
5#	ZLD709F	30	165m	6.0u†	6.0m	500n§	1.5u	16	150k	20			87		70	5C	A081	FP2j
6	LM102F883	30 ♦	165m	6.0u†	7.5m		10n	30	10G	20		1.0MØ	0.0	10		5C	A002	FP2
7	LM102H883	30 ♦	165m	6.0u†	7.5m		10n	30	10G	20		1.0MØ	0.0	10		5C	A002	CN1a
8	SG102T	30	165m	6.0u†	7.5m	10u			10G	20	8.0kØ	1.0M		10		5C	A002	TO99
9	1702-01	30	165m	10u	5.0m§	2.0f§	5.0f§	200	300Gt	20	10m	1.0kØ†	100	3.0m†	100	07		MP5bw
10	LM202F	30	165m	15u†	15m	50n			10G	26 †		1.0MØ	0.0	10		07		
11	SG202T	30	165m	15u†	15m	50n			10G	20	8.0kØ	1.0M	0.0	10		28	A002	TO99
12	40K	30	165m	20u	Δ	10p§	20p§	20	100G	20	5.0m	100k	94	6.0	80	28		MP5k
13	LM302F	30 ♦	165m	20u†§	20m		30n	30	1.0G	20		1.0MØ	0.0	10		07	A002	FP2
14	SG302T	30	165m	20u†§	20m		30n	30	1.0G	20	8.0kØ	1.0M	0.0	10		07	A002	TO99
15	H7020A	30	165m	25u	1.8mΔ	20p	50p	10	100k	20	16m	2.0M	86	6.5 †	65	4A		MP5ab
16	H7020B	30	165m	25u	1.8mΔ	20p	50p	10	100k	16	2.0M	86k	6.5 †		65	4A		MP2c
17	43J	30	165m	30u	2.0m§Δ	300pØ	10p§	22	100Gt	20	10m	4.0MtØ	106	6.0	80	28		MP5bn
18	H7010A	30	165m	30u	3.0mΔ	20p	50p	10	10M	20	16m	2.0M	86	6.5 †	55	28		MP5ab
19	H7010B	30	165m	30u	3.0mΔ	20p	50p	10	10M	20	16m	2.0M	86	6.5 †	55	28		MP2c
20	1702	30	165m	30u	5.0m§	2.0f§	5.0f§	200	300Gt	20	10m	1.0kØ†	100	3.0m†	100	07		MP5bw
21	PP65A	30	165m	36uØ	Δ	300nØ		20 Δ	300k	22	4.4m	1.5MØ	105	1.5	60	28	A034	MP6a
22	40J	30	165m	50u	Δ	25p§	50p§	20	100G	20	5.0m	100k	94	6.0	80	28		MP5k
23▼	SN52558JP*	30	168m		6.0m	500n	1.5u	24	300k	24	10kØ	3.0MØt	94	500m	70	5C	A182	MP383
24	LM747CF	30	168m		7.5m	300n	800n	24	300k	24	10kØ		94		70	07	A042n	FP6j
25	LM1458H*	30	168m		7.5m	300n	800n	24	300k	24	10kØ		86		70	07	A042p	CN1d
26	LM1458N*	30	168m		7.5m	300n	800n	24	300k	24	10kØ		86		70	07	A042p	MP189
27	SN72558P	30	168m		7.5m	300n	800n	24	300k	24	80m	1.0MtØ	86	500mt	70	07	A182	MP267
28	RM747D	30	170m		5.0m	500n	1.5u	24	1.0Mt	24	10kØ		94	500mt	70	5C	A042q	MP40
29	RM747T	30	170m		5.0m	500n	1.5u	24	1.0Mt	24	10kØ		94	500mt	70	5C	A042q	TO99
30	MCC1458*	30	170m		6.0m§	200n§	500n§	26 †	1.0Mt	24	10kØ	1.1MtØ	86	800mt	90 †	5C	A014	FC5
31	MCCF1458	30	170m		6.0m§	200n§	500n§	26 †	1.0Mt	24	10kØ	14kt	86	800mt	90 †	07	A140a	FC20
32	RC747D	30	170m		6.0m	500n	1.5u	24	1.0Mt	24	10kØ		94	500mt	70	07	A042q	MP40
33	RC747DP	30	170m		6.0m	500n	1.5u	24	1.0Mt	24	10kØ		94	500mt	70	07	A042q	MP40
34	RC747T	30	170m		6.0m	500n	1.5u	24	1.0Mt	24	10kØ		94	500mt	70	07	A042q	TO99
35	SN52558L	30	170m		6.0m	500n	1.5u	24	300k	24	10kØ	1.0MtØ	94	500mt	70	5c	A182	TO99
36	N5558A	30	170m		7.5m	300n	800n	24	300k	24	2.0kØ	1.1MØt	106	800mt	70	07	A140	MP153
37	N5558T*	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1MtØ	86	800mt	70	07	A140	CN1g
38	N5558V*	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.1MtØ	86	800mt	70	07	A140	MP216
39	RC4558DN	30	170m		7.5m	300n	800n	24	30	20	2.0kØ		86	500mt	70	07	A212	MP189
40	RC4558T	30	170m		7.5m	300n	800n	24	30	20	2.0kØ		86	500mt	70	07	A212	TO99
41	SN72558L	30	170m		7.5m	300n	800n	24	300k	24	10kØ	1.0MtØ	86	500mt	70	07	A182	TO99
42	MC1533F	30	170m	8.0u†	6.0m	500n	3.0u	17 §	500k	24	10kØ	4.0k	92	6.2 †	90	5C	A033	TO91
43	MC1533G	30	170m	8.0u†	6.0m	500n	3.0u	17 §	500k	24	10kØ	4.0k	92	6.2 †	90	5C	A033	CN10j
44	MC1533L	30	170m	8.0u†	6.0m	500n	3.0u	17 §	500k	24	10kØ	4.0k	92	6.2 †	90	5C	A033	MP139a
45	747BE	30	170m	15u†	6.0m	200n	500n	30	300k	24	10kØ	14kt	86	800ut	70	5C		TO100
46	747BN	30	170m	15u†	6.0m	200n	500n	30	300k	24	10kØ	14kt	86	800ut	70	5C		
47	1558E	30	170m	15u†	6.0m	5.0n	1.5n			24	10kØ	14kt		800ut	90			
48	747CE	30	170m	15u†	7.5m	300n	800n	30	300k	24	10kØ	14kt	86	800ut	70	07		TO100
49	747CJ	30	170m	15u†	7.5m	300n	800n	30	300k	24	10kØ	14kt	86	800ut	70	07		MP
50	1458E	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800ut	70	07	A014	TO99
51	1458P	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800ut	70	07	A014	MP161n
52	MC1458G*	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	1.1MtØ	86	800mt	70	5C	A014	TO99
53	MC1458L*	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800mt	70	07	A014	MP139a
54	MC1458P1*	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800mt	70	07	A014	MP161
55	MC1458P2*	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800mt	70	07	A014	MP25c
56	MC1458PI*	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	1.1MtØ	86	800mt	70	5C	A014	MP48a
57	SG1458T	30	170m	15u†	7.5m	300n	800n	24	300k	24	10kØ	14kt	86	800mt	70	07	A014	TO99
58	1018	30	180m		1.0m	2.0n§	2.0n§	20	2.0M	20	5.0m	500kØ	100	300n	90	28		MP5c
59	HA1F2400†	30	180m		7.0m	100n	400n	20	30Mt	20	20mt	40M§t	92	15 †	80	5C	A230	MP348
60	HA1F2404†	30	180m		7.0m	100n	400n	20	30Mt	20	20mt	40M§t	92	15 †	80	28	A230	MP348
61	LH0020CG	30	180m		7.5m	300n	800n	24	300k	28	300 Ø		100		90	08	A243	CN18c
62	HA1F2405†	30	180m		11m	100n	500n	20	30Mt	20	20mt	40M§t	92	15 †	74	07	A230	MP348
63	HA2A2060A	30	180m		15mΔ	5.0n	10n	20	1.0Tt	20	20m	100M§t	98	35 †	74	5C	A228	TO99
64	HA2A2065A	30	180m		15mΔ	500p	1.0n	20	1.0Tt	20	20m	100M§t	98	35 †	70	07	A228	TO99
65	HA2A2060	30	180m		30mΔ	5.0n	10n	20	1.0Tt	20	20m	100M§t	98	35 †	74	5C	A228	TO99
66	ICL8007CTA	30	180m		60m	500f§†		20	10T	24	10kØ	1.0MtØ	86	6.0 †	70	07	A131	CN1f
67	HA2A2065	30	180m		65mΔ	500p	1.0n	20	1.0Tt	20	20m	100M§t	98	35 †	70	07	A228	TO99
68	260K	30	180mt	100nØ	25u†§		300p§	40 Δ	80kt	20 †	10mt	100 †	133	100	109 †	28		MP5bh
69	3480K	30	180m	100n	25u†§		300p§	2.0	80kt	20	20m	100	140	100u	110 †	07		MP5cb
70	1018-02	30	180m	250n	100u	2.0n§	2.0n§	20	4.0M	20	5.0m	500kØ	110	300n	100	28		MP5c
71	260J	30	180mt	300nØ	25u†§		300p§	40 Δ	80kt	20 †	10mt	100 †	133	100	109 †	28		MP5bh
72	3480J	30	180m	300n	25u†§		300p§	2.0	80kt	20	20m	100	140	100u	110 †	07		MP5cb
73	1018-01	30	180m	500n	100u	2.0n§	2.0n§	20	4.0M	20	5.0m	500kØ	110	300n	100	28		MP5c
74	1018-04	30	180m	500n	100u	2.0n§	2.0n§	20	4.0M	20	5.0m	500kØ	110	300n	100	28		MP5c
75	A188	30	180m	500n	150u§		10n§	20	600k	20	10m	400kØ	114	200m	100	28	A044	MP5cc
76	ADO72A	30	180m	500nØ	150uΔ§	20n§	20n§	19 §	600k	24	10m	400k§	113	200m	108	28	A044	MP42
77	ADO72B	30	180m	1.0uØ	150uΔ§	20n§	20n§	19 §	600k	24	10m	400k§	113	200m	108	28	A044	MP42
78	3420L	30	180m	1.0u	1.0mΔ	500f†	1.0p	20	100Gt	20	20m	1.0MØ	106	1.0	90 †	07		MP5f
79	1018-03	30	180m	1.5u	250u	2.0n§	2.0n§	20	4.0M	20	5.0m	500kØ	110	300n	100	28		MP5c
80♦	171C	30	180m	2.0u	Δ	5.0p	5.0p	20	1.0T	20	40m	200k	114	15	70	28		MP199a
81	1023-01	30	180m	2.0u	700u§		10p§	20	100G	20	40m	2.0MØ	100	6.0	100	16		MP162
82	3420K	30	180m	2.0u	1.0m	2.0p†	4.0p	20	100Gt	20	20m	1.0MØ	106	1.0	90 †	07		MP5f
83	3054S01	30	180m	3.0u§	3.2m	30n§	440n	22	300kt	20	10m	1.0MØ	93	1.2	90	5C		CN1c
84	3050S01	30	180m	3.0u§	3.3m	30n§	460n	22	300kt	20	10m	1.0MØ	93	1.2	90	5C		CN1c
85	1003	30	180m	4.0u	Δ	5.0p†§	10p§	16	100Gt	20	20m	1.5MØ	106	6.0	120	28		
86♦	171B	30	180m	5.0u	Δ	5.0p	10p	20	1.0T	20	40m	200k	114	15	70	28		MP199a
87	1003-01	30	180m	5.0u	300u§		5.0p§	20	100Gt	20	40m	1.5MØ	107	5.0	109	28		MP8b
88	3352-03	30	180m	5.0u	500u§		20n§	20	300kt	20	20m	1.0MØ	93	900m	80	28		MP58g
89	1023	30	180m	5.0u	700u§		10p§	20	100G	20	40m	2.0MØ	100	6.0	100	16		MP162
90	3114-12C	30	180m	5.0u	1.0m§		10p§	20	100Gt	20	20m	1.0MØ	90	6.0	60 †	28		MP5by
91	3420J	30	180m	5.0u	1.0mΔ	5.0p†	10p	20	100Gt	20	20m	1.0MØ	106	1.0	90 †	07		MP5f
92♦	171A	30	180m	10u	Δ	5.0p	20p	20	1.0T	20	40m	200k	114	15	70	28		MP199a
93	3052A/01	30	180m	10u	2.0mt§	20nt§	30ut§	22 Δ	300kt	20	20m	1.5MtØ	96 †	1.2	100 †	5C		CN1a
94	3056A/01	30	180m	10u	2.0mt§	20nt§	30ut§	22 Δ	300kt	20	10m	1.2MtØ	96 †	1.0	100 †	28		CN1a
95	3226-03	30	180m	15u	500u§		50n§	20	300kt	20	20m	1.0MØ	93	900m	80	28		MP58g
96	10Q1ARQ	30	180mt	20uØt	Δ		25n§	20	400k	22	4.4m	5.0MØ	92	30 Ø	74	58		MP6j
97	10Q1ARQA	30	180mt	20uØt	Δ		25n§	20	400k	22	4.4m	5.0MØ	92	30 Ø	74	58		MP6k
98	10Q6ARQ	30	180mt	20uØt	Δ		25n§	20	400k	22	4.4m	2.0MØ	92	20 Ø	74	58		MP6j
99	10Q6ARQA	30	180mt	20uØt	Δ		25n§	20	400k	22	4.4m	2.0MØ	92	20 Ø	74	58		MP6k
100	10Q6ARQB	30	180mt	20uØt	Δ		25n§	20	400k	22	4.4m	2.0MØ	92	20 Ø	74	58		MP6k
101	10Q9ARQ	30	180mt	20uØt	Δ		25n§	20	1.0M	22	4.4m	500kØ	86	5.0 Ø	74	58		MP6j
102	10Q9ARQA	30	180mt	20uØt	Δ		25n§	20	1.0M	22	4.4m	500kØ	86	5.0 Ø	74	58		MP6k
103	10Q9ARQB	30	180mt	20uØt	Δ		25n§	20	1.0M	22	4.4m	500kØ	86	5.0 Ø	74	58		MP6k
104	HA2A2500	30	180m	20ut	8.0m	50n	400n	20	25M	20	20m	12M§t	86		80	5C	A231	TO99
105	HA9V2500	30	180m	20ut	8.0m	50n	400n	20	25M	20	20m	12M§t	86		80	5C	A231	TO86
106	3505J	30	180m	20ut	10m	100n	500n	20	20M	20	20m	12M§t	84	20	74	06	A174g	TO99
107	HA2A2502	30	180m	20ut	10m	100n	500n	20	20M	20	20m	12M§t	82		74	5C	A231	TO99
108	HA2A2505	30	180m	20ut	10m	100n	500n	20	20M	20	20m	12M§t	82		74	07	A231	TO99
109	HA9V2502	30	180m	20ut	10m	100n	500n	20	20M	20	20m	12M§t	82		74	5C	A231	TO86
110	HA9V2505	30	180m	20ut	10m	100n	500n	20	20M	20	20m	12M§t	82		74	07	A231	TO86

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E - +	DRAWINGS CKT.	OUT-LINE Δ=MO
1	HA2A2510	30	180m	20u†	11m	50n	400n	20	50M	20	20m	12M§†	80	50	80	5C	A231	TO99
2	HA2A2520	30	180m	20u†	11m	50n	400n	20	50M	20	20m	20M§†	80	100	80	5C	A231	TO99
3	HA9V2510	30	180m	20u†	11m	50n	400n	20	50M	20	20m	12M§†	80	50	80	5C	A231	TO86
4	HA9V2520	30	180m	20u†	11m	50n	400n	20	50M	20	20m	20M§†	80	100	80	5C	A231	TO86
5	HA2A2512	30	180m	25u†	14m	100n	500n	20	40M	20	20m	12M§†	77	40	74	5C	A231	TO99
6	HA2A2522	30	180m	25u†	14m	100n	500n	20	40M	20	20m	20M§†	77	80	74	5C	A231	TO99
7	HA9V2512	30	180m	25u†	14m	100n	500n	20	40M	20	20m	12M§†	77	40	74	5C	A231	TO86
8	HA9V2522	30	180m	25u†	14m	100n	500n	20	40M	20	20m	20M§†	77	80	74	5C	A231	TO86
9	3503B	30	180m	25u	20m§	2.0p†§	10p§	22	100G†	20	10m	1.0M†Ø	90	2.5	86 †	28		TO99
10	3503S	30	180m	25u	20m§	2.0p†§	10p§	22	100G†	20	10m	1.0M†Ø	90	2.5	86 †	5C		TO99
11	3227-03	30	180m	30u	1.0m§		80n§	20	300k†	20	10m	1.0MØ	93	600m	80	28		MP58g
12	3053A/01	30	180m	30u	3.0mt§	30nt§	.40ut§	22 △	300k†	20	20m	1.2M†Ø	93 †	1.0	100 †	5C		CN1a
13	3057A/01	30	180m	30u	3.0mt§	30nt§	.40ut§	22 △	200k†	20	10m	1.0M†Ø	93 †	.60	100 †	28		CN1a
14	9821	30	180m	30u	5.0m		1.0u		1.0M	20	20m	1.0M	120	300m		5A		MP268
15	1322	30	180m	30u†	10m§	50n§	250n§	20	40M	20	20m	20M†§	80	80	70 †	07		TO99
16	1322-01	30	180m	30u†	10m§	50n§	250n§	20	40M	20	20m	20M†§	80	80	70 †	5c		TO99
17	3507J	30	180m	30u†	14m	100n	500n	20	40M	20	20m	20M§†	77	80	74	06	A174g	TO99
18	HA2A2515	30	180m	30u†	14m	100n	500n	20	40M	20	20m	12M§†	77	40	74	07	A231	TO99
19	HA2A2525	30	180m	30u†	14m	100n	500n	20	40M	20	20m	12M§†	77	80	74	07	A231	TO99
20	HA9V2515	30	180m	30u†	14m	100n	500n	20	40M	20	20m	12M§†	77	40	74	07	A231	TO86
21	HA9V2525	30	180m	30u†	14m	100n	500n	20	40M	20	20m	12M§†	77	80	74	07	A231	TO86
22	10Q10ARQ	30	180m†	40u☑†	△		15n§	20	20M	22	4.4m	1.0MØ	89	10 Ø	66	58		MP6j
23	10Q10ARQA	30	180m†	40u☑†	△		15n§	20	20M	22	4.4m	1.0MØ	89	10 Ø	66	58		MP6k
24	10Q10ARQB	30	180m†	40u☑†	△		15n§	20	20M	22	4.4m	1.0MØ	89	10 Ø	66	58		MP6k
25	3112-12C	30	180m	50u	4.0m§		100p§	20	100G†	20	10m	1.0MØ	90	3.0	60 †	28		MP5by
26	3503C	30	180m	50u	30m§	500ft§	1.0p§	22	100G†	20	10m	1.0M†Ø	90	2.5	86 †	28		TO99
27	3503T	30	180m	50u	30m§	500ft§	1.0p§	22	100G†	20	10m	1.0M†Ø	90	2.5	86 †	5C		TO99
28	P65AU	30	180m	55u	△		100n	20	220k	22	4.4m	1.5MØ	98	1.5	60	28		CB1
29	PP65AU	30	180m	55u	△		1.2u	20	150k	22	4.4m	1.3MØ	98	600m	60	28		MP6a
30	3503A	30	180m	75u	50m§	5.0p†§	25p§	22	100G†	20	10m	1.0M†Ø	86	2.5	86 †	28		TO99
31	3503R	30	180m	75u	50m§	5.0p†§	25p§	22	100G†	20	10m	1.0M†Ø	90	2.5	86 †	5C		TO99
32	ICL8043CDE	30	180m	75u	60m	500ft†		20	1.0T	24	10kØ	1.0MØ†	86	6.0 †	70	07	A224	MP341
33	ICL8043CPE	30	180m	75u	60m	500ft†		20	1.0T	24	10kØ	1.0MØ†	86	6.0 †	70	07	A224	MP342
34▼	172C	30	180m	2.0	△	5.0p	5.0p	20	1.0T	20	40m	200k	114	15	92	28		MP199a
35▼	172B	30	180m	5.0	△	5.0p	10p	20	1.0T	20	40m	200k	114	15	92	28		MP199a
36▼	172A	30	180m	10	△	5.0p	20p	20	1.0T	20	40m	200k	114	15	92	28		MP199a
37	108C	30	192m	5.0u	△	2.0n§		20 △	4.0M	20	5.0m	500kØ	100	120m	80	48		MP6c
38	108B	30	192m	10u	△	2.0n§		20 △	4.0M	20	5.0m	500kØ	100	120m	80	48		MP6c
39	108A	30	192m	20u	△	2.0n§		20 △	4.0M	20	5.0m	500kØ	100	120m	80	48		MP6c
40	DA18	30	195m	2.0u	△	5.0n		22	600k	22	4.4m	1.5MØ	92 †	900m	96 †	5A		MP5h
41	DB18	30	195m	5.0u	△	5.0n		22	600k	22	4.4m	1.5MØ	92 †	900m	96 †	5A		MP5h
42	D18	30	195m	10u	△	5.0n		22	600k	22	4.4m	1.5MØ	92 †	900m	96 †	5A		MP5h
43	DC8	30	195m	10u	△	20n		22	200k	22	4.4m	5.0MØ	95 †	1.1	97 †	5A		MP5g
44	DC16	30	195m	10u	△	2.0n		22	40M	22	4.4m	1.0MØ	100 †	600m	110 †	5A		MP5h
45	D12	30	195m	15u	△	30n		22	200k	22	4.4m	1.0MØ	100 †	700m	74 †	28		MP5h
46	D8	30	195m	20u	△	20n		22	200k	22	4.4m	5.0MØ	95 †	1.1	97 †	5A		MP5g
47	D16	30	195m	20u	△	2.0n		22	40M	22	4.4m	1.0MØ	100 †	600m	110 †	5A		MP5h
48	D7	30	195m	25u	△	30n		22	200k	22	4.4m	1.0MØ	100 †	700m	74 †	28		MP5h
49	D3	30	195m	45u	△	6.0n		20	30M	22	4.4m	1.0MØ	100 †	600m	110 †	5A		MP5h
50#	MT709C	30	198m	6.0u	10m	750n☑	2.0u☑	16	50k	24	10kØ		83	250m†	65	07	A003	CN1c
51#	SFC2709EC	30	198m	6.0u†	10m	750n☑	2.0u☑	16	50k	24	10kØ		83	250m†	65	07	A003	TO116
52#	SFC2709PC	30	198m	6.0u†	10m	750n☑	2.0u☑	16	50k	24	10kØ		83	250m†	65	07	A003	TO91
53	LM709CH	30	198m	12u	10m	400n☑	2.0u☑	16	50k	24	10kØ		84	250m†	65	07	A003	TO99
54	LM709CN	30	198m	12u	10m	400n	2.0u	16	50k	24	10kØ		84	250m†	65	07	A003	MP39n
55#	SFC2709ET	30	198m	20u	7.5m	300n§	750n§	16	70k	24	10kØ		87	250m†	65	28	A003	TO116
56#	SFC2709PT	30	198m	20u	7.5m	300n§	750n§	16	70k	24	10kØ		87	250m†	65	28	A003	TO91
57#	SFC2709T	30	198m	20u	7.5m	300n§	750n§	16	70k	24	10kØ		87	250m†	65	28	A003	TO99
58	AD505JH	30	200m		5.0m		75n	22	2.0M	24	5.0m	12M	100	120				TO100
59	AD507JH	30	200m		5.0m	25n	25n	22	40M	24	5.0m	35M	96	20	74			TO99
60#	M51709T	30	200m		7.5m§	500n§	1.5u§	1.6	50k	24			83		65	27	A003	TO78
61	MCC1709C	30	200m		7.5m§	500n§	1.5u§	20 †	250k†	24	10kØ		83	250m†	90 †	5C	A003	FC9
62	MCCF1709C	30	200m		7.5m§	500n§	1.5u§	20 †	250k†	24	10kØ		83	12 †	90 †	07	A043	FC21
63	ULN2139D	30	200m		9.0m	115n	1.2u	22	100k	20	2.0kØ	10k	86	800m	80	59	A174e	TO99
64	ULN2139G	30	200m		9.0m	115n	1.2u	22	100k	20	2.0kØ	10k	86	800m	80	59	A172d	FP☑
65	ULN2139H	30	200m		9.0m	115n	1.2u	22	100k	20	2.0kØ	10k	86	800m	80	59	A173f	MP☑
66	ULN2139M	30	200m		9.0m	115n	1.2u	22	100k	20	2.0kØ	10k	86	800m	80	59	A200b	MP☑
67	709-9-5B	30	200m		10m	.75u	2.0u	16	50k	24	10kØ	10k†	83		65	07	A003	TO99
68	709-93-6E	30	200m		10m	.75u	2.0u	16	50k	24	10kØ	10k†	83		65	07	A003	MP39
69	709CE	30	200m		10m	1.5u§	500n§	16	50k	24	10kØ	1.0MØ	83		65	07	A043	TO99
70	709CJ	30	200m		10m	1.5u§	500n§	16	50k	24	10kØ	1.0MØ	83		65	07	A043	MP147
71	LTA709C	30	200m		10m	750n	2.0u	16	50k	24	10kØ		81		65	07		MP255
72	N5709A	30	200m		10m	.75u	2.0u	16	50k	24	2.0kØ		83		65	07	A043	TO116
73	N5709G	30	200m		10m	.75u	2.0u	16	50k	24	2.0kØ		83		65	07	A043	TO91
74	N5709T	30	200m		10m	.75u	2.0u	16	50k	24	2.0kØ		83		65	07	A043	TO99
75	N5709V	30	200m		10m	750n	2.0u	16	50k	24	2.0kØ		83		65	07	A043	MP216
76	RC709D	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	07	A003	MP40
77	RC709Q	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	07	A003	FP2k
78	RC709T	30 ♦	200m		10m	750n	2.0u	20	250k†	24	10kØ		83		65	07	A003	TO99
79▼	SN72709FA	30	200m		10m	750n	2.0u	16	50k	24	10kØ		84		65	5C	A003	FP2t
80▼	SN72709J	30	200m		10m	750n	2.0u	16	50k	24	10kØ		84		65	5C	A003	TO116
81	SN72709L	30	200m		10m	750n	2.0u	16	50k	24	10kØ		83		65	07	A003	TO99
82	SN72709N	30	200m		10m	750n	2.0u	16	50k	24	10kØ		83		65	07	A003	MP39h
83	SN72709P	30	200m		10m	750n	2.0u	16	50k	24	10kØ		83		65	07	A003	MP161
84	uA709DC	30	200m		10m	750n	2.0u	16	50k	24	10kØ		84		65	07	A003	TO116
85	uA709HC	30	200m		10m	750n	2.0u	16	50k	24	10kØ		84		65	07	A003	TO99
86#	ZLD709C	30	200m		10m	750n	2.0u	16	50k	20			83		65	07	A081	TO78
87#	ZLD709CE	30	200m		10m	750n	2.0u	16	50k	24	10kØ		83		65	07	A081	TO116
88#	ZLD709CF	30	200m		10m	750n	2.0u	16	50k	20			83		65		A081	FP2j
89#	ZLD709CG	30	200m		10m	750n	2.0u	16	50k	24	10kØ		83		65	07	A081	FP2j
90	3002	30	200m†	600n§	△	200p§	10n§	30	300M†	28 †	10m†	2.0M†	146 †	500m†	100 †	5C	A062	MP49
91	MCC1439	30	200m	3.0ut§	7.5m§	100n§	1.0u§	24 †	300k†	20	2.0kØ	50k†	83	4.2 †	110 †	5C	A037	FC4
92	MC1709CF	30	200m	3.0ut	10m	750n§	1.5u	16	50k	24	10kØ	10k	83	250m†	65	07	A043	MP139a
93	MC1709CG	30	200m	3.0ut	10m	750n§	1.5u	16	50k	24	10kØ	10k	83	250m†	65	07	A043	MP139a
94	MC1709CL	30	200m	3.0ut	10m	750n§	1.5u	16	50k	24	10kØ	10k	83	250m†	65	07	A043	MP139a
95	MC1709CP2	30	200m	3.0ut	10m	750n§	1.5u	16	50k	24	10kØ	10k	83	250m†	65	07	A043	MP25c
96	TOA2709F	30	200m	3.0ut	10m	.75u	2.0u	16	50k	24	10kØ	10k	84	.30 †	65	07	A003	TO91
97	TOA2709J	30	200m	3.0ut	10m	750n	2.0u	16	150k	24	10kØ	10k	84	300m†	65	07	A003	TO116
98	TOA2709V	30	200m	3.0ut	10m	750n	2.0u	16	50k	24	10kØ		84	300m†	65	07	A003	TO99
99	HEPC6053G-RT	30	200m	5.0ut	7.5m§	150n☑							83			07	A037	TO99
100	HEPC6053L-RT	30	200m	5.0ut	7.5m§	150n☑	1.5u☑	22	100k	20		1.0k	83	4.2 †	80	07	A037	TO116
101	ULN2139C	30	200m	5.0u	7.5m§	100n§	1.0u§	22	100k	20	2.0kØ	50k†	100 †		100 †	07	A169	
102#	TAA521%	30	200m	6.0ut	2.0mt	100nt	300nt	16	250k†	28 †	10kØ		93 †		90	07	A043	TO99
103#	TL1709C	30	200m	6.0ut	10m	750n	2.0u	160	50k	2.4	10kØ	10k	83	250m†	65	07	A043	TO99
104#	TL3709C	30	200m	6.0ut	10m	750n	2.0u	160	50k	24	10kØ	10k	83	250m†	65	07	A043	MP39f
105	TOA8709F	30	200m	6.0ut	10m	30n	90n	16	1.0M	24	10kØ	10k	84	.30 †	65	07	A003	TO91
106	TOA8709J	30	200m	6.0ut	10m	30n	90n	16	1.0M	24	10kØ	10k	84	300m†	65	07	A003	TO116
107	TOA8709V	30	200m	6.0ut	10m	30n	90n	16	1.0M	24	10kØ	10k	84	300m†	65	07	A003	TO99
108	TOA8809F	30	200m	6.0ut	10m	10n	30n	16	5.0M	24	10kØ	10k	80	.30 †	65	07	A003	TO91
109	TOA8809J	30	200m	6.0ut	10m	10n	30n	16	5.0M	24	10kØ	10k	80	300m†	65	07	A003	TO116
110	AD505KH	30	200m	15u	2.5m		25n	22	2.0M	24	5.0m	12M	104	120				TO100

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MIN.-@25°C 3 DRFT (V/°C)	4 OFST (V)	MAX VOLTAGE OFFSET (A)	MAX CURRENT BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	AD507KH	30	200m	15u	3.0m	15n	15n	22	40M	24	5.0m	35M	100	25	80			TO99
2	AD505SH	30	200m	20u	2.5m		25n	22	2.0M	24	5.0m	12M	104	120				TO100
3	MC1709CP1	30	200m	30u†	10m	750n§	1.5u	16	50k	24	10kØ	10k	83	250m†	65	07	A043	MP161
4	MIC709-5	30	200m	36u	10m	.75u	2.0u	16	50k	24	10kØ		82		65	07	A003	CN1
5	MC1439P	30	201m	3.0u†	7.5m§	150n	1.5u☑	22	100k	20	2.0kØ	10k	83	4.2 †	80	07	A037	MP25c
6	MC1439G	30	201m	5.0u†	7.5m§	150n	1.0u§	22	100k	20	2.0kØ	10k	84	4.2 †	80	07	A037	TO99
7	MC1439L	30	201m	5.0u†	7.5m§	150n	1.0u§	22	100k	20	2.0kØ	10k	84	4.2 †	80	07	A037	TO116
8▼	MC1439P1	30	201m	5.0u†	7.5m§	150n	1.0u§	22	100k	20	2.0kØ	10k	84	4.2 †	80	07	A037	MP161
9▼	MC1439P2	30	201m	5.0u†	7.5m§	150n	1.0u§	22	100k	20	2.0kØ	10k	84	4.2 †	80	07	A037	TO116
10	RM4531D	30	210m		6.0m	500n	1.5u	20	30	20	2.0kØ		93	35 †	70	5C	A211	MP322
11	RM4531T	30	210m		6.0m	500n	1.5u	20	30	20	2.0kØ		93	35 †	70	5C	A211	TO99
12	SE531T	30	210m		6.0m	500n☑	1.5u☑	20	20Mt	20	2.0kØ	500kt	93	35 †	70	5C		CN1g
13▼	AM715DM	30	210m		7.5m	800n☑	4.0u☑	20	1.0mt	20	2.0k		83	15	74	5C	A158	MP151a
14▼	AM715FM	30	210m		7.5m	800n☑	4.0u	20	1.0mt	20	2.0kØ		84	40	74	5C	A158	FP2n
15▼	AM715HM	30	210m		7.5m	800n☑	4.0u☑	20	1.0mt	20	2.0kØ		83	15	74	5C	A158	TO100
16	uA715DM	30	210m		7.5m	800n	4.0u	20	1.0Mt	20	2.0kØ		84	70 †	74	5C	A106	TO116
17	uA715HM	30	210m		7.5m	800n	4.0u	20	1.0Mt	20	2.0kØ		84	70 †	74	5C	A106	TO99
18	107A1	30	210m	1.0u§	200u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		MP6r
19	247A1	30	210m	1.0u	200u§		100n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	5C		CN2f
20	1732	30	210mt	2.0u		10nt	60n	20	300kt	20	4.0m	5.0MØt	93	6.0 †	80	58		MP5y
21	007A2	30	210m	2.0u§	200u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		FP15
22	107A2	30	210m	2.0u§	200u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		MP6r
23	247A2	30	210m	2.0u	200u§		100n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	5C		CN2f
24	1842	30	210mt	5.0u	Δ	30pt	50p	20	100Gt	20	10m	1.5MØt	109	3.0 †	73	08		MP5ak
25	HB50	30	210m	5.0u	Δ		5.0p	20	100G	20	10m	4.0MØ	86	3.0	70	5C		CN2
26	007B1	30	210m	5.0u§	500u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		FP15
27	107B1	30	210m	5.0u§	500u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		MP6r
28	247B1	30	210m	5.0u	500u§		100n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	5C		CN2f
29	DB25	30	210mt	5.0u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
30	008A1	30	210m	5.0u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		FP15
31	108A1	30	210m	5.0u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		MP6r
32	208A1	30	210m	5.0u§	1.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
33	248A1	30	210m	5.0u	1.0m§		5.0p§	20	100Gt	20	10m	2.0MØ	100	6.0	72 †	5C		CN2f
34	1339-02	30	210m	5.0u†	3.0m§	60n§	500n§	22	150k	20	20m	1.0MØt	93	34 †	80	5C		TO99
35	1339-01	30	210m	5.0u†	7.5m§	60n§	600n§	22	100k	20	20m	1.0MØt	92	34 †	80	07		TO99
36	1841	30	210mt	10u	Δ	30pt	50p	20	100Gt	20	10m	1.5MØt	109	3.0 †	73	08		MP5ak
37	HC50	30	210m	10u	Δ		5.0p	20	100G	20	10m	4.0MØ	86	3.0	70	5C		CN2
38	007A1	30	210m	10u§	200u§		150n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		FP15
39	DC25	30	210mt	10u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
40	007C1	30	210m	10u§	1.0m§		200n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		FP15
41	008A2	30	210m	10u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		FP15
42	107C1	30	210m	10u§	1.0m§		200n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	28		MP6r
43	108A2	30	210m	10u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		MP6r
44	208A2	30	210m	10u§	1.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
45	247C1	30	210m	10u	1.0m§		100n§	22	500kt	20	10m	2.0MØ	100	2.0	100 †	5C		CN2f
46	248A2	30	210m	10u	1.0m§		5.0p§	20	100Gt	20	10m	2.0MØ	100	6.0	72 †	5C		CN2f
47	C118A	30	210m	10u	1.0m§		5.0p§	20	100Gt	20	10m	500kØ	88	500m	86 †	28		MP6s
48	C218A	30	210m	10u	1.0m§		5.0p§	20	100Gt	20	10m	500kØt	88	500mt	86 †	28		CN2j
49	ICL8017MTW	30	210m	10u†	6.0m		500n	30 Δ		20	2.0kØ	10Mt†Ø	87	130 †		5c	A163	TO100
50	1339	30	210m	12u†	7.5m§	100n§	1.0u§	22	100k	20	10m	1.0MØt	83	34 †	80	07		TO99
51	45K	30	210m	15u	Δ	10p	25p	20	100G	20	20m	1.0M	100	75	70	28		
52	1439	30	210mt	15u	Δ	13nt	25n	20 †	1.0Mt	20	4.0m	1.0MØ	90	500m	80	28		MP5y
53	1614	30	210mt	15u	Δ	50nt	100p	20 †	100kt	20	10m	4.0MØ	86	1.5	80	28		MP5y
54	A45K	30	210m	15u	Δ		25p§	20	100G	20	40m	1.0M	93	75	74 †	28	A053	MP42a
55	DE25	30	210mt	20u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
56	ADO49A	30	210m	20u	5.0mΔ§	200n§	500n§	16	150k	20	10m	500k§	88	200m	66	5C	A055	CN5
57	ADO49C	30	210m	20u	7.5mΔ§	500n§	1.5u§	16	50k	20	10m	500k§	88	200m	66	07	A055	CN5
58	008B1	30	210m	25u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		FP15
59	108B1	30	210m	25u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		MP6r
60	208B1	30	210m	25u§	1.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
61	248B1	30	210m	25u	1.0m§		5.0p§	20	100Gt	20	10m	2.0MØ	100	6.0	72 †	5C		CN2f
62	501B	30	210m	25u	1.0m		10p	20	100G	20	10m	4.0MØ	90	3.0	80	28		
63	501C	30	210m	25u	1.0m		5.0p	20	100G	20	10m	4.0MØ	90	3.0	80	28		
64	AD506KH	30	210m	25u	1.0m	5.0p	10p	20	100G	24	5.0m	1.0MØ	74	5.0	80	07		TO99
65	AD516KH	30	210m	25u	1.0m	10p	20p	20	100G	24	5.0m	1.0M	74	5.0	80	07		TO99
66	C118B	30	210m	25u	1.0m§		5.0p§	20	100Gt	20	10m	500kØ	88	500m	86 †	28		MP6s
67	C218B	30	210m	25u	1.0m§		5.0p§	20	100Gt	20	10m	500kØt	88	500mt	86 †	28		CN2j
68	P501B	30	210m	25u	1.0m		10p	20	100G	20	10m	4.0MØ	90	3.0	80	28		MP72
69	P501C	30	210m	25u	1.0m		5.0p	20	100G	20	10m	4.0MØ	90	3.0	80	28		MP72
70	AD503KH	30	210m	25u	20m	5.0p	10p	20	100G	24	5.0m	1.0MØ	74	5.0	80	07		TO99
71	AD513KH	30	210m	25u	20m	10p	20p	20	100G	24	5.0m	1.0MØ	74	5.0	80	07		TO99
72	D25	30	210mt	30u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
73	D2	30	210m	30u	6.0mΔ		60n	22	400kt	22	11m	1.0MØ	85	1.8	100 †	58		MP5aq
74	AD523KH	30	210m	30u	20m		500f	20	100G	24	5.0m	500k	72	3.0	80	07		TO99
75	A99	30	210m	35u	Δ		20p§	20	100G	20	10m	2.0mØ	100	10	66	28	A197	MP5f
76	DK25	30	210mt	45u	.75m	50p		20	100G	20	40m	2.5MØ	100	6.0	72	5A		MP5g
77	45J	30	210m	50u	Δ	25p	50p	20	100G	20	20m	1.0M	100	75	70	28		
78	1725	30	210mt	50u	Δ	30pt	100p	20 †	10Gt	20	10m	10MØ	92	25	70	58		MP5y
79	1772	30	210mt	50u	Δ	30pt	100p	20 †	10Gt	20	10m	10MØ	86	12	70	58		MP5y
80	A45J	30	210m	50u	Δ		50p§	20	100G	20	40m	1.0M	93	75	74 †	28	A053	MP42a
81	008B2	30	210m	50u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		FP15
82	108B2	30	210m	50u	1.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		MP6r
83	208B2	30	210m	50u§	1.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
84	248B2	30	210m	50u	1.0m§		5.0p§	20	100Gt	20	10m	2.0MØ	100	6.0	72 †	5C		CN2f
85	AD506SH	30	210m	50u	1.0m	5.0p	10p	20	100G	24	5.0m	1.0MØ	74	5.0	80	5C		TO99
86	AD516SH	30	210m	50u	1.0m	10p	20p	20	100G	24	5.0m	1.0M	74	5.0	80	5C		TO99
87	DL25	30	210mt	50u	1.5m	100p		20	100G	20	40m	2.5MØ	98	4.5	60	5A		MP5g
88	C118C	30	210m	50u	2.0m§		10p§	20	100Gt	20	10m	500kØ	88	500m	86 †	28		MP6s
89	C218C	30	210m	50u	2.0m§		10p§	20	100Gt	20	10m	500kØt	88	500mt	86 †	28		CN2j
90	AD503SH	30	210m	50u	20m	5.0p	10p	20	100G	24	5.0m	1.0MØ	74	5.0	80	5C		TO99
91	AD513SH	30	210m	50u	20m	10p	20p	20	100G	24	5.0m	1.0MØ	74	5.0	80	5C		TO99
92	ADO19	30	210m	60u☑	5.0m§		100p§	18	10G	20	10m	250k§	97	.50	60 †	28	A053b	MP42a
93	AD523LH	30	210m	60u	20m		250f	20	100G	24	5.0m	500k	72	3.0	80	07		TO99
94	008B3	30	210m	75u	2.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		FP15
95	108B3	30	210m	75u	2.0m§		5.0p§	14	100Gt	20	10m	2.0MØ	100	3.0	80 †	28		MP6r
96	208B3	30	210m	75u§	2.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
97	248B3	30	210m	75u	2.0m§		5.0p§	20	100Gt	20	10m	2.0MØ	100	6.0	72 †	5C		CN2f
98	501A	30	210m	75u	2.0m		25p	20	100G	20	10m	4.0MØ	90	3.0	80	28		
99	P501A	30	210m	75u	2.0m		25p	20	100G	20	10m	4.0MØ	90	3.0	80	28		MP72
100	AD506JH	30	210m	75u	3.0m	10p	15p	20	100G	24	5.0m	1.0MØ	66	5.0	70	07		TO99
101	AD516JH	30	210m	75u	3.0m	20p	30p	20	100G	24	5.0m	1.0M	66	5.0	70	07		TO99
102	AD503JH	30	210m	75u	50m	10p	15p	20	100G	24	5.0m	1.0MØ	66	5.0	70	07		TO99
103	AD513JH	30	210m	75u	50m	20p	30p	20	100G	24	5.0m	1.0MØ	66	5.0	70	07		TO99
104	AD523JH	30	210m	90u	50m		1.0p	20	100G	24	5.0m	500k	66	3.0	70	07		TO99
105	ATF404	30	210m	100u	Δ	10p	50p	20	10G	20	10m	4.0MØ	90	18	74	28	A129	MP174a
106	D4	30	210m	100u	Δ		20p	20	100G	20	10	3.0MØt	90	4.0	80 †			
107	008C1	30	210m	100u§	5.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	76 †	28		FP15
108	108C1	30	210m	100u§	5.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	76 †	28		MP6n
109	208C1	30	210m	100u§	5.0m§		5.0p§	14	100Gt	20	10m	4.0MØ	100	3.0	80 †	5C		CN2
110▼	9829	30	210m	100u	10m	10u	10u	20	3.0k	20	100m	200M§	80	60	110	5A		MP5cg

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	008C2	30	210m	150u§	5.0m§		10p§	14	100G†	20	10m	4.0MØ	100	3.0	76	28		FP15
2	108C2	30	210m	150u§	5.0m§		10p§	14	100G†	20	10m	4.0MØ	100	3.0	76	28		MP6n
3	208C2	30	210m	150u§	5.0m§		10p§	14	100G†	20	10m	4.0MØ	100	3.0	76	5C		CN2
4	MC1537L	30	225m	1.5u†	6.0m	500n	1.5u	16	150k	24	10kØ	200k	88	250m†	70	5C	A036	MP139a
5	RM1537D	30	225m	1.5u	6.0m	500n	1.5u	16	150k	24	10kØ	200k	88	250m	70	5C		TO116
6	MC1437L	30	225m	1.5u†	10m	750n	2.0u	16	50k	24	10kØ	200k	84	250m†	65	07	A036	MP139a
7	MC1437P	30	225m	1.5u†	10m	750n	2.0u	16	50k	24	10kØ	200k	84	250m†	65	07	A036	MP25c
8	RC1437D	30	225m	1.5u	10m	750n	2.0u	16	50k	24	10kØ	200k	84	250m	65	07	A036	TO116
9	RC1437DP	30	225m	1.5u	10m	750n	2.0n	16	50k	24	10kØ	200k	84	250m	65	07	A036	TO116
10	RC4709DP	30	225m	3.0u†	6.0m	500n	1.5u	16	400k†	24	10kØ		88		70	07	A003	MP40
11	HEPC6051L-RT*	30	225m	3.0u†	10m	750n	2.0u	16	50k	24	10kØ		83	250m	65	07	A036	TO116
12	UC4000	30	225m	10u	6.0mΔ	30n	250n	20	800k	20	10kØ	1.0MØ	86	1.0	90	5C		TO101
13	UC4001	30	225m	20u	12mΔ	65n	400n	20	800k	20	10kØ	1.0MØ	86	1.0	90	5C		TO101
14	UC4002	30	225m	40u	14mΔ	120n	600n	20	800k	20	10kØ	1.0MØ	86	1.0	90	5C		TO101
15	RC4709D*	30 ♦	225m	3.0 †	10m	750n	2.0u	16	150k†	24	10kØ		83		65	07	A003	MP40
16	Q25AH	30	228m	55u	Δ	10p§	150p§	20	100G	22	4.4m	30MØ	92	8.0	73	5C		CN2
17	SP2A	30	240m†		Δ	1.0p§		600 †	10G†	22 †	4.4m†	75kØ	86	66m†		06		CB2
18	TOA2740V	30	240m		30n§†	60n§†	2.0n§	24	1.0T†	24	10kØ	1.0MØ†	103	6.0 †	80 †	07	A131	TO99
19#	SFC2118M	30	240m		4.0m	50n	250n	23	1.0M	24	2.0kØ		94	50	80	5C		TO99
20#	SFC2218	30	240m		4.0m	50n	250n	23	1.0M	24	2.0kØ		94	50	80	28		TO99
21	LM118D	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M†	93	50	80	5C	A209	MP322
22	LM118F	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M†	93	50	80	5C	A209	FP2n
23	LM118H	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M†	93	50	80	5C	A209	TO99
24▼	SG118J	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	93	50	80	5C	A209	TO116
25♦	SG118T	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	93	50	80	5C	A209	TO99
26▼	SG218J	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	93	50	80	28	A209	TO116
27♦	SG218T	30	240m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	93	50	80	28	A209	TO99
28	HA2A2050A	30	240m		17mΔ	5.0n	10n	20	1.0T†	20	20m	20M§†	73	120 †	74	5C	A228	TO99
29	HA2A2055A	30	240m		17mΔ	500p	1.0n	20	1.0T†	20	20m	20M§†	73	120 †	70	07	A228	TO99
30	HA2A2050	30	240m		30mΔ	5.0n	10n	20	1.0T†	20	20m	20M§†	73	120 †	74	5C	A228	TO99
31	N5740T	30	240m		30m	60p†		24 †	1.0T†	20	2.0kØ	1.0MØ†	120 †	6.0 †	80 †	07	A131	CN1g
32	uA740HC	30	240m		30m†	60p†		20	1.0T†	24	10kØ	1.0MØ†	86	6.0 †	55	07	A131	TO99
33	HA2A2055	30	240m		65mΔ	500p	1.0n	20	1.0T†	20	20m	20M§†	73	120 †	70	07	A228	TO99
34	NE536T	30	240m		90m	1.0n†	3.0n	20	10T†	20	2.0kØ	1.0mØ	86	6.0 †	64	07	A131	CN1g
35	D28	30	240m	1.5u	2.0m	60n		8.0	600k	20	4.0m	1.0MØ	110	.30	100 †	5A		MP5g
36	DA21B	30	240m†	2.0u	.50m	50p		10	100G	20	40m	3.0MØ	110	6.0	92	5A		MP2
37	ADO26B	30	240m	2.0u☑	.70m§		20p§	15	100G	20	10m	750k§	100	1.0	86	28	A053b	MP42a
38	A1026	30	240m	2.0u☑	1.0m§	2.0p†	10p§	19 §	100G	20	10m	750kØ	107	1.0	94	28	A053b	MP42a
39	DA28	30	240m	2.0u	2.0m	60n		8.0	600k	20	4.0m	1.0MØ	110	.30	100 †	5A		MP5g
40	QFT2B	30	240m	5.0u☑	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5c
41	H6020	30	240m	5.0u	.37mΔ	60n	.15u	20	500k	20	6.0m	5.0M	86	2.5 †	90	4A		MP6f
42	H6020C	30	240m	5.0u	.37mΔ	60n	.15u	20	500k	20	6.0m	5.0M	86	2.5 †	90	4A		MP5aa
43	DB19	30	240m†	5.0u	.50m	50p		10	100G	20	20m	4.0MØ	110	6.0	92	5A		MP5g
44	DB21B	30	240m†	5.0u	.50m	50p		10	100G	20	40m	3.0MØ	110	6.0	92	5A		MP2
45	ADO27B	30	240m	5.0u☑	.70m§		20p§	15	100G	20	10m	750k§	100	1.0	86	28	A053b	MP42a
46	0-578A1	30	240m†	5.0u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		FP30
47	1-578A1	30	240m†	5.0u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		MP338
48	A1027	30	240m	5.0u☑	1.0m§	2.0pt	10p§	19 §	100G	20	10m	750kØ	107	1.0	94	28	A053b	MP42a
49	H50A1	30	240m†	5.0u§	1.0m§Δ	10p§		20	100G†	02	10m	4.5MtØ	86	15	76 †	5C		CN2q
50	DB28	30	240m	5.0u	2.0m	60n		8.0	600k	20	4.0m	1.0MØ	110	.30	100 †	5A		MP5g
51	D24	30	240m	10u	Δ	15n			250k	20	40m	100MØ	100	100 †		58		MP5j
52	QFT2A	30	240m	10u☑	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5c
53	DC19	30	240m†	10u	.50m	50p		10	100G	20	20m	4.0MØ	110	6.0	92	5A		MP5g
54	H6010	30	240m	10u	.60mΔ	.12u	.25u	20	150k	20	6.0m	5.0M	86	2.5 †	80	28		MP6f
55	H6010C	30	240m	10u	.60mΔ	.12u	.25u	20	150k	20	6.0m	5.0M	86	2.5 †	80	28		MP5aa
56	0-578A2	30	240m†	10u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		FP30
57	1-578A2	30	240m†	10u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		MP338
58	H50A2	30	240m†	10u§	1.0m§Δ	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	5C		CN2q
59	41K	30	240m	10u	2.0mΔ§		250f§	30	10T†	20	10m	1.0MtØ	100	3.0	93 †	28		MP58b
60	ICL8017CTW	30	240m	10u†	7.5m		500n	30 Δ		20	2.0kØ	10MtØ	87	130 †		07	A163	TO100
61	MC1433F	30	240m	10u†	10m	750n	4.0u	16	300k	24	10kØ	4.0k	89	6.2 †	80	07	A033	TO91
62	MC1433G	30	240m	10u†	10m	750n	4.0u	16	300k	24	10kØ	4.0k	89	6.2 †	80	07	A033	CN10j
63	MC1433L	30	240m	10u†	10m	750n	4.0u	16	300k	24	10kØ	4.0k	89	6.2 †	80	07	A033	MP139a
64	MC1433P	30	240m	10u†	10m	750n	4.0u	16	300k	24	10kØ	4.0k	89	6.2 †	80	07	A033	MP25c
65	A148C	30	240m†	15u☑	Δ	5.0pt	25p§	20	100G†	20	40m	7.5MØ	94	50	72 †	28	A053	MP5s
66	D22	30	240m†	15u	Δ	10n		20	600k	20	40m	1.0MØ	100	600m	80 †	58		MP5j
67	D22B	30	240m	15u		10n		20	600k	20	40m	1.0MØ	100	.60	80 †	58		MP2
68	MC1458CG*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	1.1MtØ	86	800mt	60	07	A014	TO99
69	MC1458CL*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800mt	60	07	A014	MP139a
70	MC1458CP1*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800mt	60	07	A014	MP161
71	MC1458CP2*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800Mt	60	07	A014	MP25c
72	MC1458CPI*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	1.1MtØ	86	800mt	60	07	A014	MP48a
73	RC1458DN	30	240m	15u	12m	400n	1.0u	22	1.0M	22	10kØ	14k	86	800m	60	07	A014	MP40
74	RC1458T	30	240m	15u	12m	400n	1.0u	22	1.0M	22	10kØ	14k	86	800m	60	07	A014	TO99
75#	SFC2458C*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800mt	60	07	A014	TO99
76#	SFC2458DC*	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800mt	60	07	A014	MP167
77	SG1458M	30	240m	15u†	12m	400n	1.0u	22	1.0Mt	22	10kØ	14kt	86	800mt	60	07	A014	MP161
78	10L2LA	30	240m†	20u☑†	Δ		50n§	20	300k	20	40m	1.0MØ	106	10 Ø	80	58		MP111
79	10L4LA	30	240m†	20u☑†	Δ		10n§	20	1.0M	20	40m	500kØ	100	5.0 Ø	80	58		MP111
80	DE19	30	240m†	20u	.50m	50p		10	100G	20	20m	4.0MØ	110	6.0	92	5A		MP5g
81	DE21B	30	240m†	20u	.50m	50p		10	100G†	20	40m	3.0MØ	110	6.0	92	5A		MP2
82	LM118D883	30	240m	20u	6.0m	100n	500n	23	1.0M	24	2.0kØ	15Mt	94	50	80	5C	A209	MP148
83	LM118H883	30	240m	20u	6.0m	100n	500n	23	1.0M	24	2.0kØ	15Mt	94	50	80	5C	A209	CN1f
84	LM218D	30	240m	20u	6.0m	100n	500n	23	1.0M	24	2.0kØ	15Mt	94	50	80	28	A209	MP148
85	LM218F	30	240m	20u	6.0m	100n	500n	23	1.0M	24	2.0kØ	15Mt	94	50	80	28	A209	FP18
86	LM218H	30	240m	20u	6.0m	100n	500n	23	1.0M	24	2.0kØ	15Mt	94	50	80	28	A209	CN1f
87	A148B	30	240m†	25u☑	Δ	5.0pt	25p§	20	100Gt	20	40m	7.5MØ	94	50	72 †	28	A053	MP5s
88	A157	30	240m†	25u☑	Δ		25p	20	100G	20	40m	4.0MØ	103	30	80 †	28	A053a	MP199d
89	D11	30	240m	25u	Δ	25p		20	600k	20	40m	800kØ	100	600m	80 †	58		MP5j
90	D11B	30	240m	25u		25n		20	600k	20	40m	800kØ	100	.60	80 †	58		MP2
91	0-578B1	30	240m†	25u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		FP30
92	1-578B1	30	240m†	25u§	1.0m§	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	28		MP338
93	ADO32	30	240m	25u	1.0mΔ§		500f§	20	1.0T	24	10m	400k§	82	400m	86	28	A053b	MP42b
94	H50B1	30	240m†	25u§	1.0m§Δ	10p§		20	100G†	20	10m	4.5MtØ	86	15	76 †	5C		CN2q
95	41J	30	240m	25u	2.0m§Δ		500f§	30	10T†	20	10m	1.0MtØ	100	3.0	93 †	28		MP5ab
96	41L	30	240m	25u	2.0m§Δ		150f§	30	10T†	20	10m	1.0MtØ	100	3.0	93 †	28		MP5ab
97	1029-01	30	240m	25u	2.0m§	50f§†	100f§	20	10T†	20	10m	1.0MØ	100	3.0	80	07		MP5bv
98	ADO101B	30	240m	25u	3.0mΔ§		40p§	20	100G	24	10m	400k§	112	600m	88	5C		MP78
99	D19	30	240m†	30u	.50m	50p		10	100G†	20	20m	4.0MØ	110	6.0	92	5A		MP5g
100	D21B	30	240m†	30u	.50m	50p		10	100G†	20	40m	3.0MØ	110	6.0	92	5A		MP2
101	QFT2	30	240m	35u☑	Δ		100p§	20	100G	24	20m	3.0MØ	104	10 †	86 †	49		MP5c
102	DK19	30	240m†	45u	.50m	50p		10	100G†	20	20m	4.0MØ	110	6.0	92	5A		MP5g
103	DK21B	30	240m†	45u	.50m	50p		10	100G†	20	40m	3.0MØ	110	6.0	92	5A		MP2
104	A148A	30	240m†	50u☑	Δ	10pt	50p§	20	100Gt	20	40m	7.5MØ	94	50	72 †	28	A053	MP5s
105	A156	30	240m†	50u☑	Δ		50p	20	100G	20	40m	4.0MØ	103	30	80 †	28	A053a	MP199d
106	ADO29B	30	240m	50u☑	.70m§		50p§	15	10G	20	10m	750k§	100	1.0	86	28	A053b	MP42a
107	0-578B2	30	240m†	50u§	1.0m§	10p§		20	100Gt	20	10m	4.5MtØ	86	15	76 †	28		FP30
108	1-578B2	30	240m†	50u§	1.0m§	10p§		20	100Gt	20	10m	4.5MtØ	86	15	76 †	28		MP338
109	H50B2	30	240m†	50u§	1.0m§Δ	10p§		20	100Gt	20	10m	4.5MtØ	86	15	76 †	5C		CN2q
110	1029	30	240m	50u	2.0m§	100f§†	300f§	20	10T†	20	10m	1.0MØ	100	3.0	80	07		MP5bv

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP @25°C RATED SPECS [1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE [3] DRFT (V/°C)	[4] OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	1-578B3	30	240m†	75u§	1.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		MP338
2	H50B3	30	240m†	75u§	1.0m§Δ	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	5C		CN2q
3	0-578B3	30	240m†	75u§	2.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		FP30
4	1-578C1	30	240m†	100u§	1.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		MP338
5	H50C1	30	240m†	100u§	1.0m§Δ	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	5C		CN2q
6	0-578C1	30	240m†	100u§	5.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		FP30
7	1-578C2	30	240m†	150u§	1.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		MP338
8	H50C2	30	240m†	150u§	1.0m§Δ	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	5C		CN2q
9	0-578C2	30	240m†	150u§	5.0m§	10p§		20	100G†	20	10m	4.5M†Ø	86	15	76 †	28		FP30
10	A401	30	240m†	1.0m⍁	200m§		500u§	SE	10k	20	200m	1.0MØ	1.0			28		MP5s
11	HAD1000	30	250m			12m			1.0T	28 †	25m	1.0MØ	80 †	6.0 †	60	07	A137	CN39
12	10Q5ARQ	30	255m†	20u⍁†	Δ		25n§	20	400k	20	10m	1.5MØ	86	15 Ø	74	58		MP6j
13	10Q5ARQA	30	255m†	20u⍁†	Δ		25n§	20	400k	20	10m	1.5MØ	86	15 Ø	74	58		MP6k
14	10Q5ARQB	30	255m†	20u⍁†	Δ		25n§	20	400k	20	10m	1.5MØ	86	15 Ø	74	58		MP6k
15	D6	30	255m	20u	Δ	75n		14	200k	20	4.0m	1.5MØ	96 †	900m	96 †	28		MP5y
16	106A	30	256m	20u	Δ	5.0u§		20 Δ	1.0M	20	10m	2.0MØ	107	1.2	80	48		MP6c
17	MS741	30	270m		6.0m	500n	1.5u	24	300k	20	2.0kØ		93		70	5A	A012	FP12
18	231B	30	270m	100n	10u⍁		50p	SE	300k	20	50m	500kØ	140	200m		28		MP77
19	231K	30	270m	100n	10u⍁		50p	SE	300k	20	50m	500kØ	140	200m		05		MP77
20	231A	30	270m	250n	15u⍁		100p	SE	300k	20	50m	500kØ	140	200m		28		MP77
21	231J	30	270m	250n	15u⍁		100p	SE	300k	20	50m	500kØ	140	200m		05		MP77
22	184L	30	270m	250n⍁	100u§		25n§	20	4.0M†	20	10m	1.0M†Ø	109	300m	100	58		MP5au
23	184K	30	270m	500n⍁	100u§		25n§	20	4.0M†	20	10m	1.0M†Ø	109	300m	100	58		MP5au
24	184J	30	270m	1.5u	250u§		25n§	20	4.0M†	20	10m	1.0M†Ø	109	300m	100	58		MP5au
25	C238A	30	270m	10u	1.0m§		5.0p§	20	100G†	20	40m	10MØ		50	86	5C		CN2m
26	C438A	30	270m	10u	1.0m§		5.0p§	20	100G†	20	40m	10MØ	90	50	86	5C		MP260
27	238A	30	270m	10u	1.6m	160p	320p	10	100G	40	40m		100	80	96			CN2d
28	MSF741A	30	270m	10u	15m		15p§	24	30G	20	2.0kØ		94		70	28	A213	TO91
29	MSF741LNA	30	270m	10u	15m		15p§	24	30G	20	2.0kØ		94		70	28	A213	TO91
30	1671	30	270m†	15u	Δ	30p†	100p	20 †	10G†	20	20m	10MØ	94	12	74	58		MP5y
31	9715	30	270m	15u	10m	10p	30p	22	1.0T	20	80m	30M§	80	20	40	58		MP6p
32	1024	30	270m	20u	10m§		50n§	20	1.0M	20	40m	2.0MØ	93	6.0	86	28		MP162
33	1408-01	30	270m	25u	1.0m§Δ	5.0p§	10p§	20	100G	20	10m	4.0MØ†	87	3.0	80	28		
34	1408-02	30	270m	25u	1.0m§Δ	2.0p§	5.0p§	20	100G	20	10m	4.0MØ†	87	3.0	80	28		
35	AD501B	30	270m	25u	1.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
36	AD501C	30	270m	25u	1.0m§		5.0p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
37	ADM501B	30	270m	25u	1.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	5C		
38	ADM501C	30	270m	25u	1.0m§		5.0p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	5C		
39	ADP501B	30	270m	25u	1.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
40	ADP501C	30	270m	25u	1.0m§		5.0p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
41	C238B	30	270m	25u	1.0m§		5.0p§	20	100G†	20	40m	10MØ		50	86	5C		CN2m
42	C438B	30	270m	25u	1.0m§		5.0p§	20	100G†	20	40m	10MØ	90	50	86	5C		MP260
43	M501B	30	270m	25u	1.0m§†		10p§	20	100G†	20	10m	4.0MØ†	87	3.0	80 †	28	A031	CN2
44	M501C	30	270m	25u	1.0m§†		5.0p§	20	100G†	20	10m	4.0MØ†	87	3.0	80 †	28	A031	CN2
45	238B	30	270m	25u	2.5m	160p	320p	10	100G	40	40m	12	100	80	96			CN2d
46	1619	30	270m†	50u	Δ	30p†	100p	20 †	10G†	20	20m	10MØ	94	12	74	58		MP5y
47♦	1630	30	270m	50u		100p	500p	20	100G	20	40m	10M	88	10	74	58		MP5y
48	C238C	30	270m	50u	2.0m§		10p§	20	100G†	20	40m	10MØ		50	86	5C		CN2m
49	C438C	30	270m	50u	2.0m§		10p§	20	100G†	20	40m	10MØ	90	50	86	5C		MP260
50	238C	30	270m	50u	5.0m	320p	640p	10	100G	40	40m		100	80	96			CN2d
51	MSF741B	30	270m	50u	15m		15p§	24	30G	20	2.0kØ		94		70	28	A213	TO91
52	MSF741LNB	30	270m	50u	15m		15p§	24	30G	20	2.0kØ		94		70	28	A213	TO91
53	1408	30	270m	75u	2.0m§Δ	10p§	25p§	20	100G	20	10m	4.0MØ†	87	3.0	80	28		
54	AD501A	30	270m	75u	2.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
55	ADM501A	30	270m	75u	2.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	5C		
56	ADP501A	30	270m	75u	2.0m§		10p§	30	100G†	20	2.0kØ	4.0M†Ø	87	3.0	60	28		
57	M501A	30	270m	75u	2.0m§†		10p§	20	100G†	20	10m	4.0MØ†	87	3.0	80 †	28	A031	CN2
58	M501D	30	270m	100u	5.0m§†		10p§	20	100G†	20	10m	4.0MØ†	87	3.0	80 †	28	A031	CN2
59	UC4000C	30	285m	10u	6.0mΔ	27n	250n	20	800k	20	10kØ	1.0MØ	86	1.0	90	07		TO101
60	D5	30	285m	20u	Δ	50n		20	200k	20	10m	2.0MØ	96	1.2	74 †	58		MP5g
61	UC4001C	30	285m	20u	12mΔ	54n	400n	20	800k	20	10kØ	1.0MØ	86	1.0	90	07		TO101
62	UC4002C	30	285m	40u	14mΔ	100n	600n	20	800k	20	10kØ	1.0MØ	86	1.0	90	07		TO101
63	HX0032	30	300m		2.0m§	25p§	100p§	20	1.0T	20	1.0kØ	70M	63	500 †	50	5C	A218	CN2h
64	RM4136D	30	300m		6.0m	500n	500n	30	300k	20	2.0kØ		93	1.0	70	5C	A210	TO116
65	NE531T	30	300m		7.5m	300n⍁	2.0u⍁	20	20M†	20	2.0kØ	500k†	86	35 †	70	07		CN1g
66	NE531V	30	300m		7.5m	300n⍁	2.0u⍁	20	20M†	20	2.0kØ	500k†	86	35 †	70	07		MP216
67	RC4136D	30	300m		7.5m	300n	800n	30	300k	20	2.0kØ		86	1.0	70	07		TO116
68	RC4136DP	30	300m		7.5m	300n	800n	30	300k	20	2.0kØ		86	1.0	70	07	A210	TO116
69	RC4531D	30	300m		7.5m	300n	2.0u	20	30	20	2.0kØ		86	35 †	70	07	A211	MP322
70	RC4531DN	30	300m		7.5m	300n	2.0u	20	30	20	2.0kØ		86	35 †	70	07	A211	MP189
71	RC4531T	30	300m		7.5m	300n	2.0u	20	30	20	2.0kØ		86	35 †	70	07	A211	TO99
72▼	AM715DC	30	300m		10m	750n⍁	7.5u⍁	20	1.0m†	20	2.0kØ		80	10	74	07	A158	MP151a
73▼	AM715HC	30	300m		10m	750n⍁	7.5u⍁	20	1.0m†	20	2.0kØ		80	10	74	07	A158	TO100
74#	L115T1	30	300m		10m	250n§	1.5u§	20	1.0M†	20	2.0kØ	65M	80	10	74	07	A106	TO100
75#	SFC2318C	30	300m		10m	200n	600n	23	500k	23	2.0kØ		88	30	70	07		TO99
76	uA715DC	30	300m		10m	750n	7.5u	20	1.0M†	20	2.0kØ		80	70 †	74	07	A106	TO116
77	uA715HC	30	300m		10m	750n	7.5u	20	1.0M†	20	2.0kØ		80	70 †	74	07	A106	TO99
78	LM318D	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15M†	87	50	70	07	A209	MP322
79	LM318F	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15M†	87	50	70	07	A209	FP2n
80	LM318H	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15M†	87	50	70	07	A209	TO99
81▼	SG318J	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	87	50	70	07	A209	TO116
82▼	SG318M	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15m	87	50	70	07	A209	MP399
83♦	SG318T	30	300m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	87	50	70	07	A209	TO99
84	228B	30	300m	25n	2.5m	160p	320p	10	100G	40	10m	7.0	86	25	80			CN2
85	3291-14$	30	300m	100n	26u		80p		500k†	20	10m	3.0MØ	140	6.0		28		MP5au
86	3354-25$	30	300m	100n	36u	10p†	20p§	20	1.0M†	20	10m	3.0MØ	140	6.0	140 †	28		MP290a
87	148	30	300m†	250n	15u⍁§		50p§	SE	300k	20	5.0m	1.5M§†	160	6.0		28	A165	MP53a
88	148C	30	300m	250n	15u⍁		50p§	SE	300k	20	50m	1.5M§	160	6.0		28		MP53a
89	3292-14$	30	300m	300n	68u		110p		500k†	20	10m	3.0MØ	140	6.0		28		MP5au
90	3355-25$	30	300m	500n	80u	25p†	50p§	20	1.0M†	20	10m	3.0MØ	140	6.0	140 †	28		MP290a
91▼	SN62088N	30	300m	600n	100u	10n	20n			20	2.0kØ	3.0MØ†		25 †	80 †	28	A253	MP39h
92	3293-14$	30	300m	1.0u	160u		220p		500k†	20	10m	3.0MØ	140	6.0		28		MP5au
93	3356-25$	30	300m	1.0u	160u	25p†	50p§	20	1.0M†	20	10m	3.0MØ	140	6.0	140 †	28		MP290a
94▼	SN72088N	30	300m	1.0u	250u	15n	30n			20	2.0kØ	3.0MØ†		25 †	80 †	07	A253	MP39h
95	1423-02	30	300m	1.0u	1.0m§	2.0p§†	10p§	20	1.0T†	20	10m	3.0MØ†	100	6.0	100	16		MP238
96	A128	30	300m	2.0u	Δ	2.0p	4.0p§	20	100G	20	20m	750kØ	107	1.0	94	28	A197	MP5f
97	1423-01	30	300m	2.0u	1.0m§	2.0p§†	10p§	20	1.0T†	20	10m	3.0MØ†	100	6.0	100	16		MP238
98	A123	30	300m†	2.0u⍁	1.5m§		10p§	20	1.0T	20	10m	5.0MØ	100	50	86	28	A097	MP5ab
99	3266-12C	30	300m	5.0u			35n§	20	1.0M†	20	10m	1.0MØ	114	6.0	86	28		MP5bz
100	A122	30	300m†	5.0u⍁	1.5m§		10p§	20	1.0T	20	10m	5.0MØ	100	50	86	28	A097	MP5ab
101	1423	30	300m	5.0u	2.0m§	2.0p§†	10p§	20	1.0T†	20	10m	3.0MØ†	100	6.0	100	16		MP238
102	LH0061K	30	300m	5.0u§†	6.0m	300n	1.0u	22	300k	20	20 Ø		92	50	70	5C	A233	CN22d
103	C228A	30	300m	10u	1.0m§		5.0p§	20	100G†	20	10m	7.0MØ	88	25	80	5C		CN2j
104	228A	30	300m	10u	1.5m	160p	320p	10	100G	40	10m		86	25	80			CN2
105	A124	30	300m†	10u⍁	2.0m§Δ	100f†	500f§	20	1.0T†	20	10m	2.0MØ	100	10	92	28	A097	MP5ab
106	10Q7ARQ	30	300m†	20u⍁†	Δ		25n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	74	58		MP6j
107	10Q7ARQA	30	300m†	20u⍁†	Δ		25n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	74	58		MP6k
108	10Q7ARQB	30	300m†	20u⍁†	Δ		25n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	74	58		MP6k
109	10Q8AQAF	30	300m†	20u⍁†	Δ		25n§	20	180k	20	4.0m		84	200 Ø	74	58		MP109
110	10Q8AQBF	30	300m†	20u⍁†	Δ		25n§	20	180k	20	4.0m		84	200 Ø	74	58		MP109a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	10Q11ARQ	30	300m†	20uØ†	Δ		150n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	60	58		MP8j
2	10Q11ARQA	30	300m†	20uØ†	Δ		150n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	60	58		MP8k
3	10Q11ARQB	30	300m†	20uØ†	Δ		150n§	20	180k	20	4.0m	1.5MØ	84	15 Ø	60	58		MP6k
4▼	2100	30	300m	20u		5.0n	30n	20	1.0M	20	40m	20M	94	100	60	28		MP5y
5	3267-12C	30	300m	20u			35n§	20	1.0Mt	20	10m	1.0MØ	114	6.0	86	28		MP5bz
6	3307-12C	30	300m	20u			20p§	20	100Gt	20	10m	4.0MØ	106	6.0	66 †	28		MP5f
7	3403B	30	300m	20u	Δ	25p†	50p§	20	100Gt	20	10m	8.0MØ	100	12	60 †	28		MP5f
8	SQ10A	30	300m	20uØ	Δ		100n	20	200k	20	10m	1.0MØ	95	1.1	84 †	5A		MP5c
9	1026-01	30	300m	20u	15m	10p§†	20p§	20	100Gt	20	10m	1.0MØ†	100	10	86	28		MP5bt
10	147	30	300m†	25u	Δ		25n§	SE	200kt	20	20m	100M§	100	250		58	A164	MP5bp
11	A158	30	300m	25uØ	Δ	10p	10p	20	100G	20	40m	1.0MØ	100	75	74	28	A053	MP5s
12	C228B	30	300m	25u	1.0m§		5.0p§	20	100Gt	20	10m	7.0MØ	88	25	80	5C		CN2j
13	A125	30	300m†	25uØ	2.0m§	100f†	500f§	20	1.0T†	20	10m	2.0MØ	100	10	92	28	A097	MP5ab
14	OA201	30	300m†	25u§	6.0m§Δ	40n§	200n§	24	4.0Mt	20	200 Ø		93	1.0	80	28		MP14t
15	OA202	30	300m†	25u§	6.0m§Δ	40n§	200n§	24	4.0Mt	20	70		93	1.0	80	28		MP14t
16	1008	30	300m	35u	Δ		100p§	20	100Gt	20	60m	3.0MØ	93	10	86 †	49	A082	MP5c
17	3308-12C	30	300m	50u			50p§	20	100Gt	20	10m	4.0MØ	106	6.0	66 †	28		MP5f
18	3403A	30	300m	50u	Δ	25p†	50p§	20	100Gt	20	10m	8.0MØ	100	12	60 †	28		MP5f
19	9727	30	300m	50u	Δ	15p	50p	10	100G	20	40m	10M§	50	75	50	58		MP268
20	H7050G	30	300m	50u	Δ	50p	100p	10	100k	20	60m	10M	95	50 †		28		MP6f
21	DL19	30	300mt	50u	1.0m	100p		8.0	100Gt	20	20m	3.0MØ	108	4.5	70	5A		MP5g
22	DL21B	30	300mt	50u	1.0m	100p		8.0	100Gt	20	40m	2.5MØ	108	4.5	70	5A		MP2
23	C228C	30	300m	50u	2.0m§		10p§	20	100Gt	20	10m	7.0MØ	88	25	80	5C		CN2j
24	228C	30	300m	50u	5.0m	320p	640p	10	100G	40	10m		86	25	80			CN2
25	1414-10	30	300m	50u	5.0m§	10p§†	100p§	20	100Gt	20	40m	10MØ†	100	50 †	73	28		MP260
26	1026	30	300m	50u	15m	20p§†	50p§	20	100Gt	20	10m	1.0MØ†	100	10	86	28		MP5bt
27	H7040C	30	300m	75u	Δ	100p	100p	10	10G	20	5.0m	1.0MØ	100	5.0	60	28		MP5ad
28	1673	30	300mt	200u	Δ	3.0pt	10p	16 †	10Tt	20	40m	10MØ	86	30	60	58		MP5z
29♦	163A	30	300m	50	Δ	25pt	50p	20	1.0T	20	10m	4.0Mt§	80	6.0	60 †	28		MP199a
30	uA749DM	30	312m	3.0ut	6.0m	1.5u	3.0u	-13 §	100k	26			86	2.0 †	70	5C	A113	TO116
31	CA3100S	30	315m		5.0m§	400n§	2.0u§	24	30kt	18	30m	38MtØ	36	50	76	5C	A225	CN46
32	CA3100T	30	315m		5.0m§	400n§	2.0u§	24	30kt	18	30m	38MtØ	36	50	76	5C	A225	Δ002AL
33	310K	30	315m	10u	Δ		10f		300G	20	10m	2.0kØ	100	400		05		MP79
34	311K	30	315m	10u	Δ		10f		300G	20	10m	2.0kØ	100	400	100	05		MP79
35	310J	30	315m	30u	Δ		10f		300G	20	10m	2.0kØ	100	400		05		MP79
36	311J	30	315m	30u	Δ		10f		300G	20	10m	2.0kØ	100	400	100	05		MP79
37	3430K	30	325m	10u			10f§		300Gt	20	20m	2.0ktØ	100	400m		07		MP79
38	3431K	30	325m	10u			1.0n§	20	300Gt	20	20m	2.0ktØ	100	400m	100 †	07		MP79
39	3430J	30	325m	30u			10f§		300Gt	20	20m	2.0ktØ	100	400m		07		MP79
40	3431J	30	325m	30u			1.0n§	20	300Gt	20	20m	2.0ktØ	100	400m	100 †	07		MP79
41	A226	30	330mt	500nØ	50u§Δ		50p§	SE	400kt	20	40m	15MtØ	140	100		28	A053b	MP5aw
42	A225	30	330mt	1.0uØ	50u§Δ		100p§	SE	400kt	20	40m	15MtØ	140	100		28	A053b	MP5aw
43	DA15	30	330mt	2.0u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
44	DB15	30	330mt	5.0u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
45	DC15	30	330mt	10u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
46	DE15	30	330mt	20u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
47	D15	30	330mt	30u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
48	DK15	30	330mt	45u	.75m	50p		20	100Gt	20	10m	3.0MØ	100	6.0	72	5A		MP5g
49	DL15	30	330mt	50u	1.5m	100p		20	100Gt	20	10m	2.5MØ	98	4.5	60	5A		MP5g
50	1700-02	30	360m	200n	50u§		100p§		500k	20	40m	16MØ	160	100		28		MP17d
51	145-08	30	360mt	250n	25u§		100p§		300kt	20 †	25m	10M§	160	250		58		MP53
52	1020-03	30	360m	250n	500u§	5.0n	25n	20	4.0M	20	10m	500kØ	120	300m	100	28		MP5c
53	145	30	360mt	500n	25u§		100p§		300kt	20 †	25m	10M§	160	250		58		MP53
54	145L	30	360mt	500n	25u§		100p§		300kt	20 †	25m	10M§	160	250		58		MP53
55	1700-01	30	360m	500n	50u§		100p§		500k	20	40m	16MØ	160	100		28		MP17d
56	1020-02	30	360m	500n	500u§	5.0n	25n	20	4.0M	20	10m	500kØ	120	300m	100	28		MP5c
57	1762	30	360mt	1.0u	Δ	10nt	25n	20 †	1.0Mt	20	40m	10MØ	100	12	80	28		MP5y
58	1700	30	360m	1.0u	50u§		100p§		500k	20	40m	16MØ	160	100		28		MP17d
59	1020-01	30	360m	1.5u	500u§	5.0n	25n	20	4M	20	10m	500kØ	120	300m	100	28		MP5c
60	DA17	30	360mt	2.0u	.50m	50p		10	100Gt	20	10m	3.0MØ	100	6.0	92	5A		MP5g
61	1761	30	360mt	3.0u	Δ	10nt	25n	20 †	1.0Mt	20	40m	10MØ	100	12	80	28		MP5y
62	1726	30	360mt	5.0u	Δ	10nt	25n	20 †	1.0Mt	20	40m	10MØ	100	12	80	28		MP5y
63	DB17	30	360mt	5.0u	.50m	50p		10	100Gt	20	10m	3.0MØ	100	6.0	92	5A		MP5g
64	1020	30	360m	5.0u	3.0m§	5.0n	25n	20	4.0M	20	10m	500kØ	120	300m	100	28		MP5c
65	3054/01	30	360m	5.0u	3.3m		440n	22	150k	20	10m	1.0MØ	94	1.2	90	28		CN1a
66	3055/01	30	360m	5.0u	3.3m		440n	22	150k	20	10m	1.0MØ	94	1.2	90	28		CN1a
67	3050/01	30	360m	5.0u	3.5m		460n	22	150k	20	20m	1.0MØ	94	1.2	90	5C		CN1a
68	3051/01	30	360m	5.0u	3.5m		460n	22	150k	20	20m	1.0MØ	94	1.2	90	5C		CN1a
69	2119	30	360m	10u	Δ	25p§		20	100G	20	40m	2.5M	100	150	80	58	A079	MP5y
70	DC17	30	360mt	10u	.50m	50p		10	100G	20	10m	3.0MØ	100	6.0	92	5A		MP5g
71	3056/01	30	360m	10u	4.6m		550n	22	300kt	20	10m	900kØ	93	1.0	80	28		CN1a
72	3052/01	30	360m	10u	5.0m		580n	22	150k	20	20m	1.0MØ	93	1.2	80	5C		CN1a
73	1027-01	30	360m	15u	15m§	10p§†	50p§	20	100Gt	20	40m	10MØ	100	60	80	28		MP5s
74	D9	30	360m	20u	Δ	20n		22	200k	20	10m	10MØ	99 †	2.2	94 †	5A		MP5g
75	D14	30	360m	20u	Δ	20n			200k	20	10m	20MØ	86	30		58		MP5j
76	DE17	30	360mt	20u	.50m	50p		10	100G	20	10m	3.0MØ	100	6.0	92	5A		MP5g
77	1009-02	30	360m	25u	Δ		20p§	14	1.0Tt	20	10m	1.5MØ†	93	5.0	60 †	58		MP5d
78	2118	30	360m	25u	Δ	30p§		20	100G	20	40m	2.5M	100	150	80	58	A079	MP5y
79	D17	30	360mt	30u	.50m	50p		10	100Gt	20	10m	3.0MØ	100	6.0	92	5A		MP5g
80	3057/01	30	360m	30u	7.8m		660n	22	200kt	20	10m	700kØ	90	60	100 †	28		CN1a
81	3053/01	30	360m	30u	9.0m		700n	22	150k	20	20m	900kØ	90	1.0	80	5C		CN1a
82	DK17	30	360mt	45u	.50m	50p		10	100Gt	20	10m	3.0MØ	100	6.0	92	5A		MP5g
83	1009-01	30	360m	50u	Δ		20p§	14	1.0Tt	20	10m	1.5MØ†	93	5.0	60 †	58		MP5d
84	2117	30	360m	50u	Δ	50p§		20	100G	20	40m	2.5M	100	150	80	58	A079	MP5y
85	1027	30	360m	50u	15m§	10p§†	50p§	20	100Gt	20	40m	10MØ	100	60	80	28		MP5s
86	1009	30	360m	75u	Δ		30p§	14	1.0Tt	20	10m	1.5MØ†	93	5.0	60 †	58	A082	MP5d
87	9816	30	360m	100u	20m	20u	50u	2.0	10k	10	6.0m	1.0G§	60	10k	50	58		MP268
88	9491A	30	360m	100u	50m	50u	50u	2.0	10k	10	6.0m	1.0G§	60	1.0k	40	58		MPØ
89	416#1	30	360m	500ut	100mt		200nt	20 †	20kt	20 †	4.0 Ø	2.0MØt	53 †	5.0 †	80 †	28		OCT
90	440KR#1	30	360m	500u	100m		200n	20		24	3.0 Ø	25k	500	5.0	80	58	A135	MP190
91	MC1507L§	30	385m	17u	3.0m	250n	2.5u	22		22	5.0kØ	24MØ†	80	10	80	5C	A238	MP104a
92	1011-02	30	390m	15u	Δ		30p§	20	100Gt	20	50m	15MØ†	93		66	28		MP5s
93	1011-01	30	390m	25u	Δ		30p§	20	100Gt	20	50m	15MØ†	93		66	28		MP5s
94	FST155B	30	390m	25u	Δ	20p§	25p§	30	1.0T	20	40m	5.0M§	100	35	66 †	28	A136a	MP199a
95	1011	30	390m	50u	Δ		30p§	20	100Gt	20	50m	15MØ†	93		66	28	A082	MP5s
96	FST155A	30	390m	50u	Δ	20p§	50p§	30	1.0T	20	40m	5.0M§	100	35	66 †	28	A136a	MP199a
97#	SN72709DN*	30	400m		10m	750n	2.0u	16	50k	24	10kØ		83	500mt	65	07	A003	TO116
98	LH0024H	30	405m	20u	6.0m	5.0u	25u	24		24	1.0kØ		72	400	60 †	5C	A217	CN1f
99	LH0024CH	30	405m	25u	10m	10u	30u	24		20	1.0kØ		69	250	60 †	28	A217	CN1f
100	uA739DC	30	420m		6.0m	1.0u	300nt	20	37k	26			76	1.0 †	70	07	A109	TO116
101	uA739PC	30	420m		6.0m	1.0u	300nt	20	37k	26			76	1.0 †	70	07	A109	MP252f
102	uA749DC	30	420m	3.0ut	9.0m	1.5u	3.0u	-13 §	50k	26			84	2.0 †	70	07	A113	TO116
103	uA749PC	30	420m	3.0ut	9.0m	1.5u	3.0u	-13 §	50k	26			84	2.0 †	70	07	A113	MP252f
104	DL17	30	420mt	50u	1.0m	100p		8.0	100Gt	20	10m	2.5MØ	98	4.5	70	5A		MP5g
105	HA1S2700	30	450m		5.0m	30n	50n	22		24	22mt	1.0M§†	112	10	86	5C	A173g	TO116
106	HA2A2700	30	450m		5.0m	30n	50n	22		24	22mt	1.0M§†	112	10	86	5C	A174f	TO99
107	HA1S2704	30	450m		6.0m	30n	50n	22		24	22mt	1.0M§†	112	10	86	28	A173g	TO116
108	HA2A2704	30	450m		6.0m	30n	50n	22		24	22mt	1.0M§†	112	10	86	28	A174f	TO99
109	HA1S2705	30	450m		7.0m	40n	70n	22		24	22mt	1.0M§†	106	10	80	07	A173g	TO116
110	HA2A2705	30	450m		7.0m	40n	70n	22		24	22mt	1.0M§†	106	10	80	07	A174f	TO99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	D27	30	450m	2.0u	1.0m△		10p§	22	100G	22	22m	1.5MØ	100	2.0	86	5C		MP5ar
2♦	162C	30	450m	5.0u	△	10p	20p	20	1.0T	20	10m	150k	100	10	80	28		MP199a
3	A137	30	450m†	5.0uØ	1.0m§		10p§	20	1.0T†	20	40m	10MØ	100	100	86	28	A097	MP5ab
4	LH0061CK	30	450m	5.0u§†	15m	500n	1.0u	22	300k	20	20 Ø		88	50	60	28	A233	CN22d
5♦	162B	30	450m	10u	△	10p	20p	20	1.0T	20	10m	150k	100	10	80	28		MP199a
6	A136	30	450m†	10uØ	1.0m§		10p§	20	1.0T†	20	40m	10MØ	100	100	86	28	A097	MP5ab
7	1324-01	30	450m	15u	2.0m§	20n§†	200n§	20	3.0M†	20	20m	10MØ§	100	35 †	100 †	07		TO99
8♦	162A	30	450m	20u	△	10p	20p	20	1.0T	20	10m	150k	100	10	80	28		MP199a
9	1731§	30	450m†	20u	△	100p†	200n	8.0 †	200k†	20	200m	5.0MØ	94	2.5	80	28		MP5g
10	3401B	30	450m	20u	△	10p†	20p§	20	100G†	20	40m	8.0MØ	100	65	92 †	28		MP5s
11	3402B	30	450m	20u	△	10p†	20p§	20	100G†	20	40m	10MØ	100	60 †	60 †	28		MP5s
12	10M1CM	30	450m†	25uØ†	△		50n§	20	400k	20	60m	1.5MØ	100	15 Ø	80	58		MP112
13	147A	30	450m†	25u	△		25n§	SE	200k†	20	30m	20M§	100	300		58	A164	MP38a
14	1427-01	30	450m	25u	500u§		25p§	20	100G†	20	20m	6.0MØ	100	20	100 †	28		CN2p
15	1324	30	450m	30u	10m§	30n§†	300n§	20	3.0M†	20	20m	10MØ§	100	35 †	100 †	07		TO99
16	1017	30	450m	45u	6.0m△		100n§	22	50k	20	250m	1.0MØ	92 †	300n	60	28		MP5c
17	1672	30	450m†	50u	△	30pt	100p	20 †	10G†	20	40m	25MØ	94	100	74	58		MP5y
18	1787	30	450m†	50u		100pt	100p	20	100G†	20	40m	25MØ†	93	100	73	58		MP5y
19▼	1820	30	450m	50u		100p	500p	20	100G	20	40m	25M	94	100	74	28		MP5y
20	3401A	30	450m	50u	△	10pt	20p§	20	100G†	20	40m	8.0MØ	100	65	92 †	28		MP5s
21	3402A	30	450m	50u	△	10pt	20p	20	100G†	20	40m	10MØ	100	60	60 †	28		
22	1427	30	450m	50u	1.0m§		50p§	20	100G†	20	20m	6.0MØ	100	20	100 †	28		CN2p
23	H5000G	30	450m	50u	1.0m	100p	100p	10	10M	10	200m	10M	94	200	66	28		MP6f
24	AD060	30	450m	50uØ	3.0m△§		50p§	20	10G	20	40m	10MØ	120	100	66	28		MP42b
25	9723	30	450m	75u	20m	5.0p	10p	22	100G	20	200m	30M§	70	50	40	58		MP6p
26	9731	30	480m	700u	△	10p	20p	20	100G	20	100m	200M§	60	300	90	59		MP268
27	MC1407L§	30	485m	28u	7.5m	450n	4.0u	22		22	5.0kØ	24MØ†	74	10	80	07	A238	MP104a
28	SK3514-RT	30	500m		2.0m†	20n†		26 †		28 †			106 †		90 †	07		△002AL
29	L140AA§	30	500m		5.0m	15n§	75n§	24		24	1.2m	300k	70	200m	80	5C		TO99
30	L140CA§	30	500m		10m	30n§	100n§	24		20	1.0m	300k	60	200m	70	07		TO99
31	ICH8500ATV	30	500m		20m§			20		24	10kØ		86		60	28	A162	CN1f
32	ICH8500TV	30	500m		20m§			20		24	10kØ		86	500m†	60	28	A162	CN1f
33	9824	30	540m	10u	7.5m	3.0u	30u	20	300k	20	400m	300M§	80	200	70	59		MP268
34	135P2	30	540m	20u	△	50p		30	100G†	20	20m	5.0MØ	120	100	109	28		MP60
35	ADO24	30	540m	20u	2.0m§		50p§	20	100G	20	20m	5.0M§	88	10	60	28	A056	MP4a
36	ADO25	30	540m	20u	2.0m§		50p§	20	100G	20	2.5m	5.0M§	88	10	60	28	A056	MP4a
37	9730	30	540m	30u	20m△	20p	100p	20	100G	20	60m	2.0G§	86	1.0k	110	59		MP268a
38	ADO22	30	540m	50u	3.0m§		50p§	20	100G	20	20m	5.0M§	88	10	60	28	A056	MP4a
39	ADO23	30	540m	50u	3.0m§		50p§	20	100G	20	2.5m	5.0M§	88	10	60	28	A056	MP4a
40	9724	30	540m	100u	△	5.0p	10p	12	100G	20	200m	300M§	90	1.0k	20	58		MP6p
41	9819	30	540m	100u	△	50u	50u	20	10k	20	40m	1.0G§	100	750	100	58		MP6q
42	9826	30	540m	100u	△	10u	50u	2.0	10k	20	100m	1.0G§	60	1.0k	50	58		MP268
43	ADO20	30	540m	100u	5.0m§		50p§	20	100G	20	20m	5.0M§	88	10	60	28	A056	MP4a
44	ADO21	30	540m	100u	5.0m§		50p§	20	100G	20	2.5m	5.0M§	88	10	60	28	A056	MP4a
45▼#	TCA680	30	600m		6.0m§	30n§	100n§	25		22	1.0kØ	5.0M†Ø	86	20 †		07	A250	TO99
46▼#	TCA680B	30	600m		6.0m§	30n§	100n§	25		22	1.0kØ	5.0MØ†	86	20 †		07	A250	MP189b
47	1859	30	600m	500n	25u§	50p§			200k†	20	10m	500kØ†	140 †	1.5 †		06		MP5aw
48	1030	30	600m	25u	5.0m§	2.0p§†	20p§	20	100G†	20	40m	100M§	100	500	86	28		MP204a
49	LH0032G883	30	600m	25u†	10m	2.5n	20n	20		20	1.0kØ	300k†	63	500 †	50	5C	A218	CN18c
50	LH0032G	30	600m	25u†	10m	2.5n	20n	20		20	1.0kØ	300k†	63	500 †	50	5C	A218	CN18c
51	A130	30	600m†	50uØ	△	10pt	50p§	20	1.0T	20	40m	15MØ	94	500	80 †	28	A097	MP5ab
52	A131	30	600m†	50uØ	△	10pt	50p§	20	1.0T	20	40m	15MØ	94	300	80 †	28	A097	MP5ab
53	9406	30	600m	125u	10m	2.0u	10u	12	5.0k	20	6.0m	1.0G§	57	300	50	58		CNØ
54	9906	30	600m	150u	10m	3.0u	10u	20	50k	20	9.0m	300M§	60	250	50	5C		
55▼	1458CP	30	625m	15u	12m	400n	1.0u	22	1.0M	22	10kØ	14kt	86	800m	60	07		MP161
56	101C	30	640m	5.0u	1.0m	2.0n§		20 △	4.0M	22	5.0m	10MØ	100	2.0	86	$7		MP8b
57	101B	30	640m	10u	1.0m	2.0n§		20 △	4.0M	22	5.0m	10MØ	100	2.0	86	$7		MP8b
58	101A	30	640m	20u	1.0m	2.0n§		20 △	4.0M	22	5.0m	10MØ	100	2.0	86	$7		MP8b
59	LH0032CG	30	660m	25u†	5.0m	10n	5.0n	20		20	1.0kØ	300k†	60	500 †	50	28	A218	CN18c
60	9720	30	660m	1.0m	50m	5.0p	10p	22	100G	20	6.0m	20MØ	40	100	60	58		MP5bk
61▼	1458CE	30	680m	15u	12m	400n	1.0u	22	1.0M	22	10kØ	14kt	86	800m	60	07		TO99
62	9811	30	690m	600n	5.0m	5.0n	50n	20	100M	20	400m	1.0M§	120	2.0	50	58		MP5bk
63▼	9830	30	690m	100u	20m	10u	30u	20	2.0k	20	100m	600M§	80	250	110	5A		MP5cg
64	L144AL	30	750m		5.0m	50n	150n	24		20	1.5m	400kØ	80	400m	90	5C	A201	TO86
65	uA791KM	30	750m		6.0m	500n	1.5u	24	300k	24	1.0kØ		94		70	5C	A242	CN24b
66	uA791KC	30	750m		7.5m	300n	800n	24	300k	23	1.0kØ		86		70	07	A242	CN24b
67	9817	30	750m	2.0u	1.0m	50n	200n	20	1.0M	20	100m	300M§	120	300	86	58		MP268
68	9818	30	750m	2.0u	1.0m	50n	200n	20	1.0M	20	100m	70M§	120	40	86	58		MP268
69	9803	30	750m	2.0u	5.0m	5.0n	50n	20	100M	20	400m	15M§	120	100	50	58		MP5bk
70	1016	30	750m	20u§	△		10n§	20	200k	20	200m	10MØ†	109	60	100 †	28		MP10
71▼	9823	30	750m	20u	△	10u	20u	22	10k	20	40m	75M§	60	300	90	5A		MP5cg
72	1717	30	750m†	25u	△	200n†	500n	10	200kt	22	220m	2.0MØ†	86	1.5 †	80	58		MP5am
73	D32	30	750m	25u	5.0m	.75u		20	100k	22	80m	800kØ	88	.25	90 †	5A		MP5u
74	D33	30	750m	25u	5.0m	.75u		20	100k	22	220m	800kØ	88	.25	90 †	5A		MP5g
75	H60	30	750m	40u§	△		100p§	20	100G†	20	20m	10MØ	92	100	90 †	58		CN2f
76	3400B	30	750m	50u	△	50p†	100p§	20	100G†	20	40m	100MØ	90	1.0kt	66 †	28		MP5s
77	A440	30	750m†	50uØ	△		50p§	20	1.0T	20	200m	15MØ	93	300	80 †	28		MP5ab
78	3400A	30	750m	100u	△	50pt	100p§	20	100G†	20	40m	100MØ	90	1.0kt	66 †	28		MP5s
79	MS747C	30	800m		6.0m	500n	1.5u	24	300k	20	2.0kØ		93		70	5C		TO85
80	MSN5558	30	800m		7.5m	300n	800n	24	300k	20	2.0kØ		93		70	5C	A214	TO90
81	9808	30	900m	2.0u	1.0m		100n		500k	20	200m	60M§	120	1.8k		58		MP213
82	3341-15C	30	900m	25u	1.0m§		100p§		100G†	20	200m	50MØ	100	1.0k		28		MP287a
83	1025	30	900m	25u	10m†§	10ut	50p§	4.0	100G	20	100m	5.0M	100	500		28		MP5bm
84	AD301AN	30	900m	30u	10m	70n	300n	24 △	500k	20	10kØ		87		70	07	A134	MP189
85	3342-15C	30	900m	50u	1.0m§		100p§		100G†	20	200m	50MØ	100	1.0k		28		MP287a
86	976A	30	900m	250u	10m	10u	30u	5.0 †	3.0k	20 †	3.0kØ	300M§	50	250 †	70 †	57		MPØ
87	9804	30	990m	100u	5.0m	3.0u	20u	20	3.0k	20	400m	500MØ	50	250	70	57		MP5bk
88	9805	30	1.0	10u	1.0m		20n		2.0M	20	400m	50M§	100	750		58		MP213
89	9726	30	1.0	75u	20m	10p	30p	20	10G	20	400m	100M§	48	50	50	57		MP268
90	9412	30	1.0	150u	7.5m	3.0u	30u	22	3.0k	20	400m	300M§	50	200	70	57		CNØ
91	9712	30	1.0	150u	7.5m	10p	30p	20	10G	20	400m	400M§	48	200	50	57		MPØ
92	9725	30	1.0	150u	20m	10p	30p	20	10G	20	400m	400M§	48	300	50	57		MP268
93	L144AP	30	1.2		5.0m	50n	150n	24		20	1.5m	400kØ	80	400m	90	5C	A201	TO116
94	L144CJ	30	1.2		10m	70n	200n	24		20	1.5m	400kØ	80	400m	80	07	A201	TO116
95	L144CP	30	1.2		10m	70n	200n	24		20	1.5m	400kØ	80	400m	80	07	A201	TO116
96	A138	30	1.2	50uØ	△	100p	100p		10G	20	200m	10MØ	92	600		28	A053	MP162
97	OA304	30	1.3	500n	2.0m§	25n§	100n§	24	4.0M†	20	2.0kØ		93	5.0	80	27		MP14t
98	OA305	30	1.3	1.0u	2.0m§	25n§	100n§	24	4.0M†	20	2.0kØ		93	5.0	80	27		MP14t
99	OA301A	30	1.3	1.5u	2.0m§	25n§	100n§	24	4.0M†	20	2.0kØ		93	5.0	80	27		MP14t
100	OA302	30	1.3	3.0u	2.0m§	25n§	100n§	24	4.0M†	20	2.0kØ		93	5.0	80	27		MP14t
101	FS24	30	1.4	40u§	10m	200p	1.0n	20	100G	20	60m	25MØ	86	300	70	05		MP332
102	1019	30	1.5	25u	2.0mt§	10ut	50p§	20	100G	20	40m	5.0M	100	1.0k	100	28		MP5bm
103	A134	30	1.5	50uØ	△	100p	100p	20	1.0T	20	200m	20MØ	93	1.0k	66 †	28	A044	MP5bs
104	ZA910M1	30	1.5 †	100u§	△		400p§	SE	100G†	20	100m	70MØ	120	2.0k		28		MP208b
105▼	1755	30	195	5.0u		25n	150n	18	500k			10MØ	90	9.0	10k	5C		MP5s
106#	SN72741DN*	31	170m		7.5m	300n	800n	24	300k	24	10kØ		86	500m†	70	07	A154	TO116
107	108	32	160m†	20u	△	2.0n†		20 △	4.0M	20	5.0m	500kØ	94	120m	86	28		MP6c
108	141C△	32	160m†	25uØ	△	10p§	30p§	14	100G	20	4.0m	3.0MØ	178	3.0	60	58		MP5k
109	141B	32	160m†	40uØ	△	10p§	30p§	14	100G	20	4.0m	3.0MØ	178	3.0	60	58		MP5k
110	141A	32	160m†	75uØ	△	10p§	50p§	14	100G	20	4.0m	3.0MØ	178	3.0	60	58		MP5k

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	MIN TRANSFER CHAR @ 25°C O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	180K	32	176mt	.50u	.10ms	5.0n		20 Δ	2.0M	20	5.0m	1.0MØ	109	.60	100	$6		MP6c
2	180J	32	176mt	1.5u	.25ms	5.0n		20 Δ	2.0M	20	5.0m	1.0MØ	109	.60	100	$6		MP6c
3	142CΔ	32	224m	15u☑	Δ	10ps	25ps	18	100G	20	40m	5.0MØ	178	10	66	58		MP5c
4	142B	32	224m	25u☑	Δ	10ps	25ps	18	100G	20	40m	5.0MØ	178	10	66	58		MP5c
5	142A	32	224m	50u☑	Δ	10ps	50ps	18	100G	20	40m	5.0MØ	178	10	66	58		MP5c
6	148B	32	252m	25u	Δ	10ps	30ps	18 Δ	100G	20	20m	10MØ	89	50	66	28		MP5p
7	148A	32	252m	50u	Δ	10ps	50ps	18 Δ	100G	20	20m	10MØ	89	50	66	28		MP5p
8	301	32	432m	50u☑	Δ		2.0ps	600 Δ	10G	20	20m	500kØ	114	300k	160	28		MP17c
9	143A	32	480m	25n☑	Δ	10ps	30ps	18	100G	20	40m	5.0MØ	80	7.0	92	58		MP5m
10	143CΔ	32	480m	7.0u☑	Δ	10ps	15ps	18	100G	20	40m	5.0MØ	80	7.0	92	58		MP5m
11	143B	32	480m	15u☑	Δ	10ps	15ps	18	100G	20	40m	5.0MØ	80	7.0	92	58		MP5m
12	149C	32	540m	7.0u	Δ	10ps	15ps	18 Δ	100G	20	15m	15MØ	100	100	84	28		MP5n
13	149B	32	540m	15u	Δ	10ps	15ps	18 Δ	100G	20	15m	15MØ	100	100	84	28		MP5n
14	149A	32	540m	30u	Δ	10ps	30ps	18 Δ	100G	20	15m	15MØ	100	100	84	28		MP5n
15	147C	32	704mt	5.0u☑	1.0ms	3.0ps	15ps	18 Δ	100G	20	20m	10MØ	140	10	109	58		MP8b
16	147B	32	704mt	10u☑	1.0ms	3.0ps	15ps	18 Δ	100G	20	20m	10MØ	140	10	109	58		MP8b
17	147AΔ	32	704mt	15u☑	1.0ms	10ps	30ps	18 Δ	100G	20	20m	10MØ	140	10	109	58		MP8b
18	120B	32	720m	8.0u	Δ		55ns		200kt	20 †	25mt	10MØ	89	250		28		MP5ab
19	120A	32	720m	20u	Δ		55ns		200k	20	25m	10MØ	114	250		28		MP5q
20	210	32	800mt	1.0u☑	100ms	100ps		SE	500k	20	40m	20MØ	160	100		28		MP17b
21	211	32	800mt	2.0u☑	100ms	150ps		SE	500k	20	40m	20MØ	160	100		28		MP17b
22#	TAA765W	36		6.0u	2.0m	50n	1.0u		200k	24	400 Ø		90	9.0	80	28	A125	FP26
23#	SFC2310	36		10u	10m		10n		10G	20			0.0			07	A122	TO99
24#	SFC2110M	36		12u	6.0m		10n		10G	20			0.0			5C	A122	TO99
25#	SFC2210	36		12u	6.0m		10n		10G	20			0.0			28	A122	TO99
26#	SFC2308	36		30u	10m	1.5n	10n	28	10M	26			94		80	07	A098	TO99
27#	SFC2776EM	36	500ut	5.0ut	2.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	5C	A187a	TO116
28#	SFC2776M	36	500ut	5.0ut	2.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	5C	A187	TO99
29#	SFC2776PM	36	500ut	5.0ut	2.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	5C	A187	TO91
30#	SFC2776C	36	1.0mt	10ut	3.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	07	A187	TO99
31#	SFC2776DC	36	1.0mt	10ut	3.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	07	A187a	MP48
32#	SFC2776EC	36	1.0mt	10ut	3.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	07	A187a	TO116
33#	SFC2776PC	36	1.0mt	10ut	3.0mt	3.0nt	10nt	36	3.0Mt	24	75kØ	300kØ	100 †	160nt	70	07	A187	TO91
34	CA3094AT	36	12m		7.0m	300n	700n	27	500k	27 †	2.0kØ	4.0kt	86	500 †	70	5C	A207	Δ002AL
35	SG108T	36 ♦	16m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	800k	94	400m	85	5C	A098	TO99
36	SG208T	36 ♦	16m	15u	3.0m	400p	3.0n	27	30M	26	10kØ	800k	94	400m	85	5C	A098	TO99
37	308F	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800k	88	400m	80	07	A098	TO91
38	308H	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800k	88	400m	80	07	A098	TO99
39	N5308G	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800kØ	88	400m	80	07	A098	TO91
40	N5308T	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800kØ	88	400m	80	07	A098	CN1g
41	SG308M	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800k	88	400m	80	07	A098	MP189a
42	SG3118T	36	16m	30u	10m	1.5n	10n	28	10M	26	2.6m	800k	88	400m	80	07		TO99
43▼	SN72660FA	36	27m	30u	6.0m	4.0n	25n	27	4.0M	26	10kØ		88		80	07	A254	FP22
44▼	SN72660JA	36	27m	30u	6.0m	4.0n	25n	27	4.0M	26	10kØ		88		80	07	A254	MP381
45▼	SN72660L	36	27m	30u	6.0m	4.0n	25n	27	4.0M	26	10kØ		88		80	07	A254	TO99
46▼	SN72660N	36	27m	30u	6.0m	4.0n	25n	27	4.0M	26	10kØ		88		80	07	A254	MP39h
47▼	SN72660P	36	27m	30u	6.0m	4.0n	25n	27	4.0M	26	10kØ		88		80	07	A254	MP267
48▼	SN72308AFA	36	28m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A198	FP2t
49▼	SN72308AJA	36	28m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A198	MP381
50	SN72308AL	36 ♦	28m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A198	TO99
51	SN72308AN	36 ♦	28m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A198	MP39h
52	SN72308AP	36 ♦	28m	5.0u	730u	1.5n	10n	28	10M	26	10kØ		98		96	07	A198	MP267
53▼	SN72308FA	36	28m	15u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A198	FP2t
54▼	SN72308JA	36	28m	15u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A198	MP381
55	SN72308L	36 ♦	28m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A198	TO99
56	SN72308N	36 ♦	28m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A198	MP39h
57	SN72308P	36 ♦	28m	30u	10m	1.5n	10n	28	10M	26	10kØ		88		80	07	A198	MP267
58#	TAA761W	36	60m	6.0u	2.0m	50n	1.0u		200k	24	400 Ø		90	9.0	80	07	A125	FP26
59#	TAA765A	36	60m	6.0u	2.0m	50n	1.5n	30	200k	24	400 Ø		90	3.0	80	28	A125	
60#	L141T1	36	85m		7.5m	300n	800n	24	300k	20	2.0kØ	1.0M	86	500m	70	07	A042k	TO99
61	MC1741SCG	36	85m	6.0ut	7.5m	300n	500ns	24	300k	20	2.0kØ	800k	84	10	70	07		TO99
62	MC1741SCP1	36	85m	6.0ut	7.5m	300n	500ns	24	300k	20	2.0kØ	800k	84	10	70	07		MP161
63#	TBA221Δ	36	85m	10u	5.0m	200n	500n	30	300k	20	2.0kØ		86	500mt	70	07	A042k	TO79
64#	TBA221A	36	85m	10u	5.0m	200n	500n	30	300k	20	2.0kØ		86	500mt	70	07	A042k	MP39
65	301AH	36	90m	30u	10m	60n	300n	24	500k	20	5.0m	800k	88	500mt	70	07	A001	TO99
66	301AN	36	90m	30u	10m	70n	300n	24	500k	20	5.0m	800k	88	500mt	70	07	A001	
67	LM301AD	36	90m	30u	10m	70n	300n	24	500k	20	5.0m	800k	88	500m	70	07		
68	LM307N8	36	90m	30u	10m	70n	300n	24	500k	24	10kØ	1.0MtØ	87	1.0	70	07		MP☑
69#	TAA522Δ	36	110m	25u	3.0m	200n	600n	20	150k	20	2.0kØ		88	250m	80	5C	A124	TO79
70	LM341N8	36	120m	30u	7.5m	20n	100n	30		12	10kØ	3.0MtØ	100	1.0	70			MP☑
71	LM341N14	36	120m	30u	7.5m	20n	100n	30		12	10kØ	3.0MtØ	100	1.0	70			MP☑
72	LM342N8	36	120m	30u	7.5m	20n	100n	30		12	10kØ	3.0MtØ	100	1.0	70			MP☑
73	LM342N14	36	120m	30u	7.5m	20n	100n	30		12	10kØ	3.0MtØ	100	1.0	70			MP☑
74#	SFC2761M	36	150mt	6.0u	7.5ms	300ns	1.5us	27	200kt	24	620 Ø		90 †	9.0 †	80	5C	A125a	CN44
75#	SFC2761PM	36	150mt	6.0u	7.5ms	300ns	1.5us	27	200kt	24	620 Ø		90 †	9.0 †	80	5C	A125a	TO91
76#	SFC2761T	36	150mt	6.0u	7.5ms	300ns	1.5us	27	200kt	24	620 Ø		90 †	9.0 †	80	28	A125a	CN44
77	A139	36	180m	15u☑	1.0m	25p	25p	10	100G	20	40m	500k	100	50	78	28	A053	MP5s
78	H3100G	36	180m	500u	10mt	5.0n	10n☑	20	100k	20	3.0m	1.2M		1.2	55	28		MP51
79	SG310T	36 ♦	198m	10ut	10m		10n	30	10G	20	10kØ	4.0MØ	0.0	30	80	07	A122	TO99
80▼	SN72310FA	36	198m	10u	10m		10n		10G	20	10kØ		60			07	A122	FP22
81▼	SN72310JA	36	198m	10u	10m		10n		10G	20	10kØ		60			07	A122	MP381
82	SN72310L	36 ♦	198m	10ut	10m		10n		10G	20	10kØ	4.0MØ	0.0	30 †		07		TO99
83▼	SN72310N	36	198m	10u	10m		10n		10G	20	10kØ		60			07	A122	MP39h
84	SN72310P	36 ♦	198m	10ut	10m		10n		10G	20	10kØ	4.0MtØ	0.0	30 †		07		MP161
85	LM110F883	36 ♦	198m	12u	6.0m		10n		10G	20	10kØ		0.0			5C	A122	FP☑
86	LM110H883	36 ♦	198m	12u	6.0m		10n		10G	20	10kØ		0.0			5C	A122	TO99
87	SG110T	36 ♦	198m	12u	6.0m		10n		10G	20	10kØ	20M	0.0			5C	A122	TO99
88	SG210T	36 ♦	198m	12u	6.0m		10n		10G	20	10kØ	20M	0.0			5C	A122	TO99
89▼	SN52110FA	36	198m	12u	6.0m		10n		10G	20	10kØ		60			5C	A122	FP22
90▼	SN52110JA	36	198m	12u	6.0m		10n		10G	20	10kØ		60			5C	A122	MP381
91▼	SN52110JP	36	198m	12u	6.0m		10n		10G	20	10kØ		60			5C	A122	MP383
92	SN52110L	36 ♦	198m	12u	6.0m		10n		10G	20	10kØ	4.0MtØ	0.0	30 †		5C		TO99
93	PC210	36	200mt	15u	5.0ms	130ns	600nts	30 †	50k	28 †	5.0kØ	1.2Mt	65	200ut	65	5C	A028	FP7d
94#	TAA521Δ	36	280m	10ut	7.5m	500n	1.5u	20	50k	20	2.0kØ		81	250m	65	07	A124	TO79
95#	TAA521A	36	280m	10u	7.5m	500n	1.5u	20	50k	20	2.0kØ		81	250m	65	07	A124a	MP39
96	TOA118F	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	5C	A172a	TO91
97	TOA118J	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	5C	A173a	TO116
98	TOA118V	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	5C	A174b	TO99
99	TOA218F	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	28	A172a	TO91
100	TOA218J	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	28	A173a	TO116
101	TOA218V	36	288m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	94	50	80	28	A174b	TO99
102	SP2AU	36	288m	150u	Δ		10p	600	10Gt	22	4.4m	75ks	103	80mt		06		CB2
103	TOA318F	36	360m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	88	50	70	07	A172a	TO91
104	TOA318J	36	360m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	88	50	70	07	A173a	TO116
105	TOA318V	36	360m		15m	300n	1.0u	23	500k	24	2.0kØ	15M	88	50	70	07	A174b	TO99
106	FST156B	36	360m	20u	Δ	10ps	20ps	20	1.0T	20	40m	5.0Ms	98	40	69	28	A136a	MP199a
107	FST156A	36	360m	40u	Δ	10ps	50ps	20	1.0T	20	40m	5.0Ms	98	40	69	28	A136a	MP199a
108	402	36	360mt	50ut	Δ		300nts	16	300kt	24	10	300ktØ	69	1.0	60 †	5F		MP167a
109#	TBA231	36	420m		6.0m	1.0u	2.0u	22		26			70	1.0	70	07		TO116
110	CA3033A	36	420m	6.6ut	5.0ms	25ns	200ms	18 §	400k	30	60m	10kt	90	2.5 †	96	5C	A061	MP3

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	CA3047A	36	420m	6.6u†	5.0m§	25n§	200n§	18 §	400k	30	60m	10k†	90	2.5 †	96	07	A061	TO116
2	FST152C	36	468m	10u	Δ	10p§	20p§	20	1.0T	20	40m	12M§	113	75	69	28	A136a	MP199a
3	FST157C	36	468m	10u	Δ	10p§	20p§	20	1.0T	20	40m	12M§	109	40	69	28	A136a	MP199a
4	FST158B	36	468m	20u	Δ	10p§	20p§	20	1.0T	20	40m	5.0M§	109	40	69	28	A136a	MP199a
5	FST159B	36	468m	20u	Δ	10p§	20p§	20	1.0T	20	40m	5.0M§	109	40	86	28	A136a	MP199a
6	FST152B	36	468m	25u	Δ	10p§	20p§	20	1.0T	20	40m	12M§	113	75	69	28	A136a	MP199a
7	FST157B	36	468m	25u	Δ	10p§	50p§	20	1.0T	20	40m	12M§	109	40	69	28	A136a	MP199a
8	FST158A	36	468m	40u	Δ	10p§	50p§	20	1.0T	20	40m	5.0M§	109	40	69	28	A136a	MP199a
9	FST159A	36	468m	40u	Δ	10p§	50p§	20	1.0T	20	40m	5.0M§	109	40	86	28	A136a	MP199a
10	FST152A	36	468m	50u	Δ	10p§	30p§	20	1.0T	20	40m	12M§	113	100 †	69	28	A136a	MP199a
11	FST157A	36	468m	50u	Δ	10p§	100p§	20	1.0T	20	40m	12M§	109	40	69	28	A136a	MP199a
12	FST160B	36	612m	20u	Δ	10p§	50p§	20	1.0T	20	40m	18M§	100	75	86	28	A136a	MP199a
13	FST161B	36	612m	20u	Δ	10p§	50p§	20	1.0T	20	40m	18M§	100	150	60	28	A136a	MP199a
14	FST160A	36	612m	40u	Δ	10p§	100p§	20	1.0T	20	40m	18M§	100	75	86	28	A136a	MP199a
15	FST161A	36	612m	40u	Δ	10p§	100p§	20	1.0T	20	40m	18M§	100	150	60	28	A136a	MP199a
16	A132	36	720m	50u☑	Δ	10	50p§	20	1.0T†	6.0u†	5.0m	50M	100	1.5k	60	28	A097	MP5ab
17	A133	36	720m	50u☑	Δ	10	50p§	20	1.0T†	6.0u†	5.0m	50M	100	1.5k	60	28	A097	MP5ab
18	HX0032C	36	1.5	25u	3.0m	50p	200p		10G	30	15m	50M†Ø	60	500 †	50	07		TO8
19	NH0024	40			6.5m	7.0u	50u	24		24	6.0m		69	500	70	5C		TO99
20	NH0024-883	40			6.5m	7.0u	50u	24		24	6.0m		69	500	70	5C		TO99
21	NH0024C	40			8.0m	10u	65u	24		24	6.0m		69	500	70	07		TO99
22#	SFC2108M	40		15u	3.0m	400p	3.0n	28	30M	26			94		85	5C	A098	TO99
23#	SFC2208	40		15u	3.0m	400p	3.0n	28	30M	26			94		85	28	A098	TO99
24	SG301AM	40 ♦		30u	10m	70n	300n	24	500k	24	10kØ		87		70	07	A001	MP189a
25	JANM38510/10103BHB	40	120n	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
26	LH0001H	40 ♦	4.3m	4.0u†	2.0m	100n	300n	40	500k	20	2.0kØ		88		70	5C	A004	CN8
27	NH0001-883	40	5.0m	4.0u†	2.0m	100n	300n	28	500k	20		5.0MØ	100	250m	70	5C	A004	CN8
28	NH0001C	40	5.0m	4.0u†	2.0m	.10u	.30u	28	500k	20		5.0MØ	100	.25	70	07		
29	LM108H☑	40	12m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	5C	A098	TO91
30	LM208E	40	12m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	28	A098	TO99
31	LM208H☑	40	12m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	28	A098	TO91
32	LM208L	40	12m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	28	A098	TO116
33	LM316F	40	16m		15m	100p	250p	26	1.0G	26	2.6m		82	400m	80	07		FP2
34	LM316H	40	16m		15m	100p	250p	26	1.0G	26	2.6m		82	400m	80	07		TO99
35	AMLM108A	40	16m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A157	TO99
36	AMLM208A	40	16m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A157	TO99
37	AMLM208AF	40	16m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A157	FP2n
38	LM108AH883	40	16m	5.0u	1.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	CN1c
39	108F	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	TO91
40	108H	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	TO99
41	208F	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	28	A098	TO91
42	208H	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	28	A098	TO99
43	AMLM108	40	16m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	5C	A157	TO99
44	AMLM108F	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	FP2
45	AMLM208	40	16m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	28	A157	TO99
46	AMLM208F	40	16m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	28	A157	FP2n
47	LM108F883	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	FP2
48	LM108H883	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5C	A098	CN1c
49	S5108G	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800kØ	94	400m	85	5C	A098	TO91
50	S5108T	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800kØ	94	400m	85	5C	A098	CN1g
51	SG1118T	40	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5c		TO99
52	SG2118T	40 ♦	16m	15u	3.0m	400p	3.0n	28	30M	26	2.6m	800k	94	400m	85	5c		TO99
53	AMLM108AD	40 ♦	18m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	5C	A157	MP151a
54	AMLM108AH	40 ♦	18m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	5C	A157	TO99
55	AMLM208AD	40 ♦	18m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	28	A157	MP151a
56	AMLM208AH	40 ♦	18m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	28	A157	TO99
57	AMLM108D	40 ♦	18m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		93		85	5C	A157	MP151a
58	AMLM108H	40 ♦	18m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		93		85	5C	A157	TO99
59	AMLM208D	40 ♦	18m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		93		85	28	A157	MP151a
60	AMLM208H	40 ♦	18m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		93		85	28	A157	TO99
61	AMLM216A	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A244	TO99
62	AMLM216AD	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A244	MP151a
63	AMLM216AF	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A244	FP2n
64	AMLM316A	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A244	TO99
65	AMLM316AD	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A244	MP151a
66	AMLM316AF	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A244	FP2n
67	LM116AD	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	MP322
68	LM116AF	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	FP2n
69	LM116AH	40	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	TO99
70	LM216AD	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	MP148
71	LM216AF	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	FP2
72	LM216AH	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	28	A208	TO99
73	LM316AD	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A208	MP148
74	LM316AF	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A208	FP2
75	LM316AH	40 ♦	24m		6.0m	30p	100p	26	5.0G	26	10kØ		92		80	07	A208	TO99
76	LM216D	40 ♦	24m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A208	MP148
77	LM216F	40 ♦	24m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A208	FP2
78	LM216H	40 ♦	24m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A208	TO99
79	LM316D	40 ♦	24m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A208	MP148
80	108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	5C	A098	TO91
81	108AH	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	5C	A098	TO99
82	208AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	28	A098	TO116
83	208AF	40	24m	5.0u	1.0m	450p	3.0n	27	30M	26	10kØ		92		96	28	A098	TO91
84	208AH	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	28	A098	TO99
85	308AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	07	A098	TO116
86	308AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	07	A098	TO91
87	AMLM108AF	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	FP2n
88	LH2108AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	2.6m	10 †	92	200m†	96	5C		FP28
89	LH2208AD	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	2.6m	10 †	92	200m†	96	28		MP230a
90	LH2208AF	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	2.6m	10 †	92	200m†	96	28		FP28
91	LM108AD	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	MP148
92	LM108AF883	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30m	26	10kØ		92		96	5C		FP2n
93	LM108AF	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	FP2
94	LM108AH	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A098	TO99
95	LM208AD	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A098	MP148
96	LM208AF	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A098	FP2
97	LM208AH	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	28	A098	TO99
98	LM308AN	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	07	A098	MP189
99	SG108AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	5C		TO99
100	SG208AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	28		TO99
101	SG1118AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	5c		TO99
102	SG2118AT	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	28		TO99
103	SG3118AT	40	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		92		96	07		TO99
104▼	SN52108AFA	40	24m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	5C	A198	FP2t
105▼	SN52108AJA	40	24m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	5C	A198	MP381
106▼	SN52108AJP	40	24m	5.0u	1.0m	400u	3.0n	27	30M	26	10kØ		98		96	5C	A198	MP383
107	SN52108AL	40 ♦	24m	5.0u	1.0m	400p	3.0n	27	30M	26	10kØ		98		96	5C	A198	TO99
108	JANM38510/10104ACA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	JANM38510/10104ACB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
2	JANM38510/10104ACC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
3	JANM38510/10104AGA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
4	JANM38510/10104AGB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
5	JANM38510/10104AGC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
6	JANM38510/10104AHA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
7	JANM38510/10104AHB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
8	JANM38510/10104AHC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
9	JANM38510/10104BCA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
10	JANM38510/10104BCB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
11	JANM38510/10104BCC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
12	JANM38510/10104BGA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
13	JANM38510/10104BGB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
14	JANM38510/10104BGC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
15	JANM38510/10104BHA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
16	JANM38510/10104BHB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
17	JANM38510/10104BHC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
18	JANM38510/10104CCA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
19	JANM38510/10104CCB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
20	JANM38510/10104CCC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	MP315
21	JANM38510/10104CGA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
22	JANM38510/10104CGB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
23	JANM38510/10104CGC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	CN1k
24	JANM38510/10104CHA	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
25	JANM38510/10104CHB	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
26	JANM38510/10104CHC	40	24m	15u	1.0m	400p	3.0n	30	20MØ	32	10kØ	300kØ	94	100m	96	5C	A194	FP31
27	AMLM112	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	5C	A244	TO99
28	AMLM112D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	5C	A244	MP151a
29	AMLM112F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	5C	A244	FP2n
30	AMLM212	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	28	A244	TO99
31	AMLM212D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	28	A244	MP151a
32	AMLM212F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		96		85	28	A244	FP2n
33	ICL108LNTY	40	24m	15u	3.0m	400p	3.0n	27		26	10kØ	300ktØ	87	300mt	85	5c		TO99
34	LM108D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A098	MP148
35	LM108F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A098	FP2
36	LM108H	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A098	TO99
37	LM112D	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A206	MP148
38	LM112F	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A206	FP2
39	LM112H	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	5C	A206	TO99
40	LM208D	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A098	MP148
41	LM208F	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A098	FP2
42	LM208H	40	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A098	TO99
43	LM212D	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A206	MP148
44	LM212F	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A206	FP2
45	LM212H	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		92		85	28	A206	TO99
46▼	SN52108FA	40	24m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	5C	A198	FP22
47▼	SN52108JA	40	24m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	5C	A198	MP381
48▼	SN52108JP	40	24m	15u	3.0m	400u	3.0n	27	30M	26	10kØ		94		85	5C	A198	MP383
49	SN52108L	40 ♦	24m	15u	3.0m	400p	3.0n	27	30M	26	10kØ		94		85	5C	A198	TO99
50▼	SN52660FA	40	30m	25u	5.0m	5.0n	25n	27	4.0M	26	10kØ		88		80	5C	A254	FP2t
51▼	SN52660JA	40	30m	25u	5.0m	5.0n	25n	27	4.0M	26	10kØ		88		80	5C	A254	MP381
52▼	SN52660JP	40	30m	25u	5.0m	5.0n	25n	27	4.0M	26	10kØ		88		80	5C	A254	MP383
53▼	SN52660L	40	30m	25u	5.0m	5.0n	25n	27	4.0m	26	10kØ		88		80	5C	A254	TO99
54	AMLM216	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A244	TO99
55	AMLM216D	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A244	MP151a
56	AMLM216F	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A244	FP2n
57	AMLM316	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A244	TO99
58	AMLM316D	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A244	MP151a
59	AMLM316F	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	07	A244	FP2n
60	LM116D	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A208	MP322
61	LM116F	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A208	FP2n
62	LM116H	40	32m		15m	100p	250p	26	1.0G	26	10kØ		86		80	28	A208	TO99
63	LM121D	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	5C	B050	MP148
64	LM121F	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	5C	B050	FP2
65	LM121H	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	5C	B050	TO99
66	LM221D	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	28	B050	MP148
67	LM221F	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	28	B050	FP2
68	LM221H	40	60m	1.0u	1.0m	3.0n	30n	26	4.0M				24		120	28	B050	TO99
69	SSS747K*	40	85m	7.0ut	2.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A178	TO100
70	SSS747M*	40	85m	7.0ut	2.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A176	TO86
71	SSS747P*	40	85m	7.0ut	2.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A177	TO116
72▼	AMSSS747K	40	85m	7.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A178	TO100
73▼	AMSSS747M	40	85m	7.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A176	TO86
74▼	AMSSS747P	40	85m	7.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	1.0 t	80	5C	A177	TO116
75▼	AMSSS741J	40	85m	8.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	3.0MtØ	100	1.4 t	80	5C	A174	TO99
76	SSS741J	40	85m	8.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	3.0MtØ	100	1.4 t	80	5c	A174	TO99
77	SSS741P	40	85m	8.0ut	3.0m	10n	100n	30	2.0M	24	10kØ	3.0MtØ	100	1.4 t	80	5c	A173	TO116
78	SSS741BJ	40	85m	10ut	4.0m	10n	100n	30	2.0M	24	10kØ	3.0MtØ	94	1.4 t	80	28	A174	TO99
79	SSS741BP	40	85m	10ut	4.0m	10n	100n	30	2.0M	24	10kØ	3.0MtØ	94	1.4 t	80	28	A173	TO116
80	SSS747BK*	40	85m	10ut	4.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	94	1.0 t	80	28	A178	TO100
81	SSS747BM*	40	85m	10ut	4.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	94	1.0 t	80	28	A176	TO86
82	SSS747BP*	40	85m	10ut	4.0m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	94	1.0 t	80	28	A177	TO116
83	LM321D	40	88m	1.0u	2.5m	4.0n	28n	26	2.0M				21		114	07	B050	MP148
84	LM321F	40	88m	1.0u	2.5m	4.0n	28n	26	2.0M				21		114	07	B050	FP2

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	LM321H	40	88m	1.0u	2.5m	4.0n	28n	26	2.0M				21		114	07	B050	TO99
2	SSS101AJ	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	400mt	80	5C	A174b	TO99
3	SSS101AL	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	400mt	80	5C	A172a	TO91
4	SSS101AP	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	400mt	80	5C	A173a	TO116
5	SSS107J	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	500mt	80	5C	A174c	TO99
6	SSS107L	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	500mt	80	5C	A172b	TO91
7	SSS107P	40	90m	10ut	2.8m	10n	100n	30	2.0M	24	10kØ	1.0MtØ	100	500mt	80	5C	A173b	TO116
8	SSS201AJ	40	90m	10ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	400mt	80	28	A174b	TO99
9	SSS201AL	40	90m	10ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	400mt	80	28	A172a	TO91
10	SSS201AP	40	90m	10ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	400mt	80	28	A173a	TO116
11	SSS207J	40	90m	12ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	500mt	80	28	A174c	TO99
12	SSS207L	40	90m	12ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	500mt	80	28	A172b	TO91
13	SSS207P	40	90m	12ut	3.0m	20n	100n	30	1.5M	24	10kØ	1.0MtØ	94	500mt	80	28	A173b	TO116
14	AMLM107F	40	90m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94	200m	80	5C	A156	FP2n
15	AMLM207F	40	90m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94	200m	80	28	A156	FP2n
16	AMLM201F	40	100m		6.0m	500n	1.5u	24	300k	24	10kØ		94		70	28	A155	FP2n
17#	MT101	40 ♦	100m	6.0ut	6.0m§	500nØ	1.5uØ	24	300k	24	10kØ		93		70	5C	A001	CN1c
18	AMLM201AF	40	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	28	A155	FP2n
19	LM107D	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A235	MP148
20	LM107F	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A235	FP2
21	LM107H	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A235	TO99
22	LM207D	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A235	MP148
23	LM207F	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A235	FP2
24	LM207H	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A235	TO99
25#	MT101A	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C		CN1c
26#	MT107	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A012	CN1c
27#	MT201A	40 ♦	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	28		CN1c
28#	SFC2201APT	40	100m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		99	500mt	80	28	A001	TO91
29	ICL741LNDD	40	112m	7.0ut	6.0m	500n	1.5u	24		24	10kØ	1.0MtØ	87	500mt	70	5c		
30	ICL741LNTY	40	112m	7.0ut	6.0m	500n	1.5u	24		24	10kØ	1.0MtØ	87	500mt	70	5c		TO99
31	ICL741LNFB	40	112m	7.0ut	7.5m	500n	1.5u	24		24	10kØ	1.0MtØ	87	500mt	70	5c		
32	LM101AF883	40	120m		3.0m	20n	100n			32	10kØ		94	200m	80	5C		FP2n
33	LM101AH883	40	120m		3.0m	20n	100n			32	10kØ		94	200m	80	5C		TO99
34	LM107F883	40	120m		3.0m	20n	100n			32	10kØ		94	200m	80	5C		FP2n
35	LM107H883	40	120m		3.0m	20n	100n			32	10kØ		94	200m	80	5C		TO99
36#	MT107-883	40 ♦	120m		3.0m	20n	100n	30		32	10kØ		93	200m	80	5C		CN1c
37	LM101F883	40	120m		5.0m	500n	1.5u			32	10kØ		94	300m	70	5C		FP2n
38	LM101H883	40	120m		5.0m	500n	1.5u			32	10kØ		94	300m	70	5C		TO99
39	AMLM101	40 ♦	120m		6.0m	500nØ	1.5u	24	300k	24	10kØ		93		70	5C	A155	TO99
40	AMLM101D	40 ♦	120m		6.0m	500nØ	1.5u	24	300k	24	10kØ		93		70	5C	A155	MP151a
41	AMLM201	40 ♦	120m		6.0m	500nØ	1.5u	24	300k	24	10kØ		93		70	28	A155	TO99
42	AMLM201D	40 ♦	120m		6.0m	500nØ	1.5u	24	300k	24	10kØ		93		70	28	A155	MP151a
43#	MT101-883	40 ♦	120m		6.0m	500nØ	1.5uØ	30		32	10kØ		93	300m	70	5C		CN1c
44	AMLM301	40 ♦	120m		10m	750nØ	2.0u	24	100k	24	10kØ		86		65	07	A155	TO99
45	AMLM301D	40 ♦	120m		10m	750nØ	2.0u	24	100k	24	10kØ		86		65	07	A155	MP151a
46	LH0003CH	40 ♦	120m	4.0ut§	3.0m§	200n§	2.0u§	40	100kt	20	100kØ		87		70	08	A004	CN8
47	LH0003H	40 ♦	120m	4.0ut§	3.0m§	200n§	2.0u§	40	100kt	20	100kØ		87		70	5C	A004	CN8
48	101D	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	99	500m	70	5C	A012	TO116
49	101F	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	99	500m	70	5C	A012	TO91
50	101H	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	99	500m	70	5C	A012	TO99
51	AMLM101F	40 ♦	120m	6.0ut	6.0m	500n	1.5u	24	300k	24		1.0MØ	93	500m	70	5C	A012	FP2
52	HA2A2101	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ		92		70	5C	A090	TO99
53	HA2A2107-3	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ		92		70	5C	A229	TO99
54	HA9W2101	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ		92		70	5C	A090	TO91
55	HA9W2107-3	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ		92		70	5C	A229	TO91
56	LM101D	40 ♦	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	99	500m	70	5C	A012	TO116
57	LM101F	40 ♦	120m	6.0ut	6.0m	.50u	1.5u	24	300k	24		1.0MØ	93	.50	70	5C	A012	FP2
58	LM101H	40 ♦	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	1.0MØ	93	500m	70	5C	A012	CN1c
59	S5101G	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	2.0kØ	1.0MØ	93	500m	70	5C	A012	TO91
60	S5101T	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	2.0kØ	1.0MØ	93	500m	70	5C	A012	CN1g
61	SG101T	40	120m	6.0ut	6.0m	500n	1.5u	24	300k	24	10kØ	1.0M	93	500m	70	5C	A012	TO99
62#	MT201	40 ♦	120m	6.0ut	10m	750nØ	2.0uØ	24	150k	24	10kØ		86		65	07	A001	CN1c
63	UC4201	40	120m	8.0ut	10m△	750n	2.0u	24	150k	20	2.0kØ	500kØ	88	400mt	65	07	A090	TO99
64	201D	40	120m	10ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	83	500m	65	07	A012	TO116
65	201F	40	120m	10ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	83	500m	65	07	A012	TO91
66	201H	40	120m	10ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	83	500m	65	07	A012	TO99
67	LM201D	40 ♦	120m	10ut	6.0m	500n	1.5u	24	300k	24	10kØ	2.0MØ	83	500m	65	07	A012	TO116
68	LM201H	40 ♦	120m	10ut	6.0m	750n	2.0u	24	150k	24	10kØ	1.0MØ	83	500m	65	07	A012	CN1c
69	N5201G	40	120m	10ut	6.0m	750n	2.0u	24	150k	24	1.0kØ	1.0MØ	83	500m	65	07		TO91
70	SG201T	40	120m	10ut	6.0m	750n	2.0u	24	150k	24	10kØ	1.0MØ	83	500m	65	07	A012	TO99
71	LM201F	40 ♦	120m	10ut	10m	750n	2.0u	24	150k	24	10kØ	1.0MØ	83	500m	65	07	A012	FP2
72	JANM38510/10103ACA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
73	JANM38510/10103ACB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
74	JANM38510/10103ACC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
75	JANM38510/10103AGA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
76	JANM38510/10103AGB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
77	JANM38510/10103AGC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
78	JANM38510/10103AHA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
79	JANM38510/10103AHB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
80	JANM38510/10103AHC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
81	JANM38510/10103BCA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
82	JANM38510/10103BCB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
83	JANM38510/10103BCC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
84	JANM38510/10103BGA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
85	JANM38510/10103BGB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
86	JANM38510/10103BGC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
87	JANM38510/10103BHA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
88	JANM38510/10103BHC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
89	JANM38510/10103CCA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
90	JANM38510/10103CCB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	JANM38510/10103CCC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	MP315
2	JANM38510/10103CGA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
3	JANM38510/10103CGB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
4	JANM38510/10103CGC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	CN1k
5	JANM38510/10103CHA	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
6	JANM38510/10103CHB	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
7	JANM38510/10103CHC	40	120m	15u	2.5m	20n	100n	30	1.5MØ	32	10kØ	437kØ	100	300m	90	5C	A193	FP31
8	101AD	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	5C	A001	TO116
9	101AF	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	5C	A001	TO91
10	101AH	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	5C	A001	TO99
11	201AD	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	28	A001	TO116
12	201AF	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	28	A001	TO91
13	201AH	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	500m	80	28	A001	TO99
14	AMLM101A	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	07	A155	TO99
15	AMLM101AD	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	07	A155	MP151a
16	AMLM101AF	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	5C		FP2n
17	AMLM107	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A156	TO99
18	AMLM107D	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A156	MP151a
19	AMLM201A	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	28	A155	TO99
20	AMLM201AD	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	28	A155	MP151a
21	AMLM207	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	28	A156	TO99
22	AMLM207D	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	28	A156	MP151a
23	HA2A2101A	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A090	TO99
24	HA2A2107	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A229	TO99
25	HA2A2201A	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A090	TO99
26	HA2A2207	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A229	TO99
27	HA9W2101A	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A090	TO91
28	HA9W2107	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	5C	A229	TO91
29	HA9W2207	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		92		80	28	A229	TO91
30	ICL101ALNDD	40	120m	15u	3.0m	20n	100n	27 §		24	10kØ	800ktØ	87	500mt	80	5c		
31	ICL101ALNFB	40	120m	15u	3.0m	20n	100n	27 §		24	10kØ	800ktØ	87	500mt	80	5c		
32	ICL101ALNTY	40	120m	15u	3.0m	20n	100n	27 §		24	10kØ	800ktØ	87	500mt	80	5c		TO99
33	LM101AD	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	5C		MP14r
34	LM101AF	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	5C		FP2n
35	LM101AH	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	5C		TO99
36	LM141F	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	5C		TO91
37	LM141H	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	5C		TO99
38	LM141J	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	5C		TO116
39	LM142F	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	5C	A001	TO99
40	LM142H	40	120m	15u	3.0m	10n	60n	30		24	10kØ	3.0MtØ	100	1.0	80	5C		TO99
41	LM142J	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	5C	A001	TO116
42	LM201AD	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	28		MP14r
43	LM201AF	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	28		FP2n
44	LM201AH	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94		80	28		TO99
45	LM201AJ	40	120m	15u	3.0m	20n	100n	30	500k	24	10kØ	1.0MtØ	94	2.0 †	80	28	A001	TO116
46	LM241F	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	28		TO91
47	LM241H	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	28		TO99
48	LM241J	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	28		TO116
49	LM242F	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	28	A001	TO91
50	LM242H	40	120m	15u	3.0m	10n	60n	30		24	10kØ	3.0MtØ	100	1.0	80	28		TO99
51	LM242J	40	120m	15u	3.0m	10n	60n	30	25M	24	10kØ		100	1.0	80	28	A001	TO116
52	MLM101AG	40	120m	15u	3.0m	20n	100n§	30	1.5M	24	10kØ		93		80	5C	A171	TO99
53	MLM107G	40	120m	15u	3.0m	20n	100n	30	1.5M	24	3.0		94		80	5C	A175	TO99
54	MLM201AG	40	120m	15u	3.0m	20n	100n§	30	1.5M	24	10kØ		93		80	28	A171	TO99
55	MLM207G	40	120m	15u	3.0m	20n	100n	30	1.5M	24	3.0		94		80	28	A175	TO99
56	S5101AG	40	120m	15u	3.0m	20n	100n	30	1.5M	24	2.0kØ	100 †	94		80	5C		TO91
57	S5101AT	40	120m	15u	3.0m	20n	100n	30	1.5M	24	2.0kØ	100 †	94		80	5C		CN1g
58	S5107G	40	120m	15u	3.0m	20n	100n	30	1.5M	24	2.0kØ	10	94		80	5C		TO91
59	S5107T	40	120m	15u	3.0m	20n	100n	30	1.5M	24	2.0kØ	10	94		80	5C		CN1g
60#	SFC2101A	40	120m	15u	3.0m	20n	100n	30	1.5M	24		2.0MØ	99	500mt	80	5C		TO99
61#	SFC2101APM	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		99	500mt	80	5C	A012	TO91
62#	SFC2107M	40	120m	15u	3.0m	20n	100n		1.5M	24				500mt	80	5C		TO99
63	SG101AT	40	120m	15u	3.0m	20n	100n	30	1.5M	20	2.0kØ	1.0kt	87		80	5C	A001	TO99
64	SG107T	40 ♦	120m	15u	3.0m	20n	100n	30	1.5M	20	2.0kØ	800k	93	500m	80	5C	A001	TO99
65	SG201AN	40	120m	15u	3.0m	20n	100n	30	1.5M	20	2.0kØ	800k	94	500m	80	07	A001	TO116
66▼	SN52101AFA	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A150	FP22
67	SN52101AJ	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A150	MP139
68▼	SN52101AJA	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A150	MP381
69▼	SN52101AJP	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A150	MP383
70	SN52101AL	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A150	TO99
71▼	SN52107FA	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A151	FP22
72▼	SN52107JA	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A151	MP381
73▼	SN52107JP	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		94		80	5C	A151	MP383
74	SN52107L	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ		93		80	5C	A151	TO99
75	TOA101AF	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	5C	A172a	TO91
76	TOA101AJ	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	5C	A173a	TO116
77	TOA101AV	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	5C	A174b	TO99
78	TOA107F	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	5C	A172b	TO91
79	TOA107J	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	5C	A173b	TO116
80	TOA107V	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	5C	A174c	TO99
81	TOA201AF	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	28	A172a	TO91
82	TOA201AJ	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	28	A173a	TO116
83	TOA201AV	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	100 †	94	10 †	80	28	A174b	TO99
84	TOA207F	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	28	A172b	TO91
85	TOA207J	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	28	A173b	TO116
86	TOA207V	40	120m	15u	3.0m	20n	100n	30	1.5M	24	10kØ	10	94		80	28	A174c	TO99
87	UC4741-107	40 ♦	120m	15u	3.0mΔ	20n	100n	30	1.5M	20	2.0kØ	700kØ	94	500mt	80	5C		TO99
88	UC4741-107D*	40 ♦	120m	15u	3.0mΔ	20n	100n	30	1.5M	20	2.0kØ	700kØ	94	500mt	80	5C		MP40
89#	MT207	40 ♦	120m	20u	6.0m	30n	300n	30	500k	24	10kØ		87		70	28	A090	CN1c
90#	SFC2201A	40	120m	20u	6.0m	30n	300n	30	500k	24		2.0MØ	99	500mt	70	28		TO99
91#	SFC2207	40	120m	20u	6.0m	30n	300n		500k	24				500mt	70	28		TO99
92	SG201AT	40	120m	20u	6.0m	30n	300n	30	500k	20	2.0kØ	1.0k	87		70	07	A001	TO99
93	SG207T	40 ♦	120m	20u	6.0m	30n	300n	30	500k	20	2.0kØ	800k	87	500m	70	07	A001	TO99
94	UC4201A	40	120m	20u	6.0mΔ	30n	300n	30	500k	20	2.0kØ	500kØ	88	400mt	70	07	A090	TO99
95	UC4207	40 ♦	120m	20u	6.0mΔ	30n	300n	30	500k	20	2.0kØ	700kØ	87	500mt	70	07		TO99
96	HA2A2307	40	120m	30u	10m	70n	300n	24	500k	24	10kØ		86		70	07	A229	TO99
97	HA9W2307	40	120m	30u	10m	70n	300n	24	500k	24	10kØ		86		70	07	A229	TO91
98	L137AA	40	120m	50u	17m		1.5uØ	10	300k	24	10m		93		70	5C	A133	TO99
99	L137CA	40	120m	50u	27m		2.0uØ	10	150k	24	10m		86		65	07	A133	TO99
100	NH0003-883	40 ♦	120m	4.0mt§	3.0m§	200n§	2.0u§		100kt	20		1.0MØ	86	70	70	5C	A004	
101	JANM38510/10101AAA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE				MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C				T C E O M D P E	DRAWINGS	
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	-+	CKT.	OUT-LINE Δ=MO
1	JANM38510/10101AAB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
2	JANM38510/10101AAC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
3	JANM38510/10101ABA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
4	JANM38510/10101ABB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
5	JANM38510/10101ABC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
6	JANM38510/10101ACA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
7	JANM38510/10101ACB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
8	JANM38510/10101ACC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
9	JANM38510/10101ADA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
10	JANM38510/10101ADB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
11	JANM38510/10101ADC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
12	JANM38510/10101AGA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
13	JANM38510/10101AGB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
14	JANM38510/10101AGC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
15	JANM38510/10101AHA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
16	JANM38510/10101AHB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
17	JANM38510/10101AHC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
18	JANM38510/10101BAA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
19	JANM38510/10101BAB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
20	JANM38510/10101BAC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
21	JANM38510/10101BBA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
22	JANM38510/10101BBB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
23	JANM38510/10101BBC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
24	JANM38510/10101BCA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
25	JANM38510/10101BCB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
26	JANM38510/10101BCC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
27	JANM38510/10101BDA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
28	JANM38510/10101BDB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
29	JANM38510/10101BDC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
30	JANM38510/10101BGA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
31	JANM38510/10101BGB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
32	JANM38510/10101BGC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
33	JANM38510/10101BHA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
34	JANM38510/10101BHB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
35	JANM38510/10101BHC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
36	JANM38510/10101CAA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
37	JANM38510/10101CAB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
38	JANM38510/10101CAC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24
39	JANM38510/10101CBA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
40	JANM38510/10101CBB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
41	JANM38510/10101CBC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP24a
42	JANM38510/10101CCA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
43	JANM38510/10101CCB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
44	JANM38510/10101CCC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	MP315
45	JANM38510/10101CDA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
46	JANM38510/10101CDB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
47	JANM38510/10101CDC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP25
48	JANM38510/10101CGA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
49	JANM38510/10101CGB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
50	JANM38510/10101CGC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	CN1k
51	JANM38510/10101CHA	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
52	JANM38510/10101CHB	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
53	JANM38510/10101CHC	40	150m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A191	FP31
54	uA747ADM	40 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	5C	A241a	MP14x
55	uA747AHM	40 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	437k	94	300m	80	5C	A241a	TO100
56	uA747EDC	40 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	450k	94	300m	80	07	A241a	MP14x
57	uA747EHC	40 ♦	150m	15u§	4.0m	70n	210n	30 Δ	1.0M	32	10kØ	450k	94	300m	80	07	A241a	TO100

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP @25°C RATED SPECS [1] TOT. VOLT. (ΔV)	[2] MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE [3] DRFT (V/°C)	[4] OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	TEMP -+	DIP CKT.	DRAWINGS OUT-LINE Δ=MO
1	LH740AH	40	160m	5.0u†	20m	500p	4.0p	24	1.0T†	24	10kØ	1.0MØ†	94		80	5C	A174	TO99
2	LH740ACH	40	160m	5.0u†	30m†	500p	5.0n	24	1.0T†	24	10kØ	1.0MØ†	94		80	08	A174	TO99
3	3522K	40	200m	25u	500u	1.0p†	5.0p	30	100G†	20	10	1.0M†	100	600m	90	07		TO99
4	3522L	40	200m	25u	500u	500f†	1.0p	30	100G†	20	10	1.0M†	100	600m	90	07		TO99
5	3522S	40	200m	25u	500u	1.0p†	5.0p	30	100G†	20	10	1.0M†	100	600m	90	5C		TO99
6	3522J	40	200m	50u	1.0m	2.0p†	10p	30	100G†	20	10	1.0M†	94	500m	90	07		TO99
7	3542J	40	200m	50u	20m	2.0p†	25p	30	100G†	20	20	1.0M†	88	500m	80	07		TO99
8	3542S	40	200m	50u	20m	2.0p†	25p	30	100G†	20	20	1.0M†	88	500m	80	5C		TO99
9	SU536T	40	220m	20u†	50m	5.0p†	1.0n	20	10T†	20	2.0kØ	1.0MØ	93	6.0 †	70	28		CN1g
10	LH2108AD	40	240m	5.0u	1.0m	400u	3.0n	27	30M	26	2.6m	10 †	92	200m†	96	5C		MP230a
11	JANM38510/10102AAA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
12	JANM38510/10102AAB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
13	JANM38510/10102AAC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
14	JANM38510/10102ABA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
15	JANM38510/10102ABB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
16	JANM38510/10102ABC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
17	JANM38510/10102ACA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
18	JANM38510/10102ACB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
19	JANM38510/10102ACC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
20	JANM38510/10102ADA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
21	JANM38510/10102ADB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
22	JANM38510/10102ADC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
23	JANM38510/10102AIA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
24	JANM38510/10102AIB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
25	JANM38510/10102AIC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
26	JANM38510/10102BAA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
27	JANM38510/10102BAB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
28	JANM38510/10102BAC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
29	JANM38510/10102BBA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
30	JANM38510/10102BBB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
31	JANM38510/10102BBC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
32	JANM38510/10102BCA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
33	JANM38510/10102BCB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
34	JANM38510/10102BCC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
35	JANM38510/10102BDA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
36	JANM38510/10102BDB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
37	JANM38510/10102BDC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
38	JANM38510/10102BIA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
39	JANM38510/10102BIB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
40	JANM38510/10102BIC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
41	JANM38510/10102CAA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
42	JANM38510/10102CAB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
43	JANM38510/10102CAC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24
44	JANM38510/10102CBA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
45	JANM38510/10102CBB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
46	JANM38510/10102CBC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP24a
47	JANM38510/10102CCA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
48	JANM38510/10102CCB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	MP315
49	JANM38510/10102CCC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
50	JANM38510/10102CDA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
51	JANM38510/10102CDB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	FP25
52	JANM38510/10102CDC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
53	JANM38510/10102CIA*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
54	JANM38510/10102CIB*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
55	JANM38510/10102CIC*	40	300m	15u	4.0m	70n	210n	30	1.0MØ	32	10kØ	437kØ	94	300m	80	5C	A192	CN10e
56	AMLM118	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	5C	A245	TO99
57	AMLM118D	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	5C	A245	MP151a
58	AMLM118F	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	5C	A245	FP2n
59	AMLM218	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	28	A245	TO99
60	AMLM218D	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	28	A245	MP151a
61	AMLM218F	40	320m		6.0m	100n	500n	23	1.0M	24	2.0kØ	15M	96	15 †	80	28	A245	FP2n
62	AMLM318	40	400m		15m	15m	750n	23	500k	24	2.0kØ	15M	86	15 †	70	07	A245	TO99
63	AMLM318D	40	400m		15m	15m	750n	23	500k	24	2.0kØ	15M	86	15 †	70	07	A245	MP151a
64	AMLM318F	40	400m		15m	15m	750n	23	500k	24	2.0kØ	15M	86	15 †	70	07	A245	FP2n
65	LH101D§	40	500m	6.0u†	6.0m	500nØ	1.5uØ	24	300k	24	10m		93		70	5C	A001	TO116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

3. OPERATIONAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	LH101F§	40	500m	6.0u†	6.0m	500n☑	1.5u☑	24	300k	24	10m		93		70	5C	A001	TO91
2	LH101H§	40	500m	6.0u†	6.0m	500n☑	1.5u☑	24	300k	24	10m		93		70	5C	A001	TO99
3	LH201D§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001	TO116
4	LH201F§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001	TO91
5	LH201H§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001	TO99
6	AD201AN	40	1.2	15u	3.0m	20n	100n	30 Δ	1.5M	20	10kØ		93		80	07	A134	MP189
7	NH0020-883	44			4.0m	100n	500n	24	1.0M	28	50m	1.0M	100		96	5C		TO8
8	LH740A	44		5.0u	20m	560p	4.0n	24	1.0G	24	2.4m	1.0M	84	6.0	80	5C		TO99
9	LH740AC	44		5.0u	30m	500p	5.0n	24	1.0G	24	2.4m	1.0M	84	6.0	80	07		TO99
10	NH0022-883	44		10u	5.0m	500p	5.0n	24		24	2.6m	1.0M	100	3.0	90	5C		TO99
11	CA3094BT	44	12m		7.0m	300n	700n	27	500k	27 †	2.0kØ	4.0k†	86	500 †	70	5C	A207	Δ002AL
12#	L141T2	44	85m		5.0m	500n	1.5u	24	300k	20	2.0kØ	1.0M	94	500m	70	5C	A042k	TO99
13#	TBA222Δ	44	85m	3.0u	5.0m	200n	500n	30	300k	20	2.0kØ		94	500m†	70	5C	A042r	TO79
14	MC1741SG	44	85m	6.0u†	6.0m	500n	500n§	24	300k	20	2.0kØ	800k	88	10	70	5C		TO99
15	AD504SH	44	500m	1.0u	1.5m	10n	100n	20	2.0M	24	10m	150k	120	80m	120	5C		TO99
16	AD741LH	44	500m	5.0u	1.0m	15n	120n	20	2.0M	24	10m	1.0M	94	500m	90	07		TO99
17	AD503LH	44	500m	25u	1.0m	200p	400p	20	100G	24	10m	1.0M	90	4.0	70	07		TO99
18	AD503TH	44	500m	25u	1.0m	5.0n	10n	20	100G	24	10m	1.0M	90	4.0	70	5C		TO99
19	AD513LH	44	500m	25u	1.0m	200p	400p	20	100G	24	10m	1.0M	90	4.0	70	07		TO99
20	AD513TH	44	500m	25u	1.0m	5.0n	10n	20	100G	24	10m	1.0M	90	4.0	70	5C		TO99
21	AD511B	44	500m	25u	2.5m	350p	650p	20	100G	20	10m	1.0M	88	4.0	70	28		
22	AD511C	44	500m	25u	2.5m	350p	350p	20	100G	20	10m	1.0M	88	4.0	70	28		
23	ADP511B	44	500m	25u	2.5m	350p	650p	20	100G	20	10m	1.0M	88	4.0	70	28		
24	ADP511C	44	500m	25u	2.5m	350p	350p	20	100G	20	10m	1.0M	88	4.0	70	28		
25	AD511A	44	500m	75u	6.5m	1.6n	1.6n	20	100G	20	10m	1.0M	88	4.0	70	28		
26	ADP511A	44	500m	75u	6.5m	1.6n	1.6n	20	100G	20	10m	1.0M	88	4.0	70	28		
27	D4083	44	1.1	250u	2.0m	.20u§	1.0u	20	50M	20	20m	1.0kØ	56	20	80	05		
28	D4084	44	1.4	50u	.20m	2.0n	100p	20		20	20m	2.0kØ	38	175		05		
29	163K	48	96m	5.0u	Δ	3.0n	35n	40	1.0M	40	40m	1.5MØ	114	6.0	86	05		MP5ab
30	165A	48	192m	20u	Δ	3.0n	35n	40	1.0M	40	10m	1.5MØ	108	6.0	86	28		MP75
31	165K	48	196m	5.0u	Δ	3.0n	35n	40	1.0M	40	10m	1.5MØ	108	6.0	86	05		MP75
32	ZEL1E	48	240m†	20u	Δ		50n§	36	1.0M†	40	8.0m	1.5M†Ø	113	6.0	86	28		MP6g
33	ZEL1EC	48	240m†	20u	Δ		5.0n§	36	1.0M†	40	40m	1.0M†Ø	113	6.0	86	28		MP8c
34	4009#2	48	240m	500u†	100m†		200n†	40 †	20k†	16 †	2.0kØ	30MØ†	56 †	10 †	80 †	5C	A040	CN14
35	D23	48	336m	10u	1.0m	100p		10	100G†	40	4.0m	2.5MØ	88	2.0	80 †	5A		MP5g
36▼	174B	48	480m	20	Δ	10p	20p	20	1.0T	40	40m	250k	98	40	70	28		MP199g
37▼	174A	48	480m	40	Δ	10p	50p	20	1.0T	40	40m	250k	98	40	70	28		MP199g
38	MA20	48	650m†	2.0m†	630m†		25u		1.6k†	18	200m	5.0M	72 †	250 †			A085	MP42c
39	D30B	48	720m†	10u	.50m	25n		30	500k	37	120m	1.0MØ	84	1.8	70 †	58		MP2
40	MA32	48	800m†	20u	10m	1.5u	15u	20	2.6k†	18	200m	5.0M	69 †	160 †			A086	MP42c
41	MA30	48	800m†	300u	50m	5.0u	15u	20	2.6k†	18	200m	5.0M	69 †	160 †			A086	MP42c
42	420☑	48	1.0	20u	20m	1.0u	200n	40	100k	40	1.0	20k	75	5.0	80	08		OCT
43	D31	48	1.4 †	25u	5.0m	.50u		10	500k	35	300m	750kØ	86	1.8	70 †	58		MP5g
44	D34	48	1.4	50u	5.0m	.75u		10	100k	35	500m	1.0MØ	86	.50	90 †	5A		MP26
45	D42	48	4.8 †	30u§	5.0m§	100n§	300n§	36	500k	36	1.0	800kØ	86	250m	90 †	58		MP333
46	NH0033	50		25u	15m		1.0n		10G	24	24m	100M	0.0	1.5k		5C		TO8
47	NH0033-883	50		25u	15m		1.0n		10G	24	24m	100M	0.0	1.5k		5C		TO8
48	NH0033C	50		25u	25m		1.5n		10G	24	24m	100M	0.0	1.4k		07		TO8
49	1757§	50	1.2m†	20u	Δ	150n†	250n	16 †	200k†	40	400m	5.0MØ	94	2.5	80	28		MP5g
50	1682	50	500m†	30u	Δ	100p†	100p	30 †	10G†	40	20m	10MØ	97	20	74	58		MP5y
51	425#2	50	750m	20u†	20m†		500n†	40 †	20k†	14 †	50 Ø	2.0MØ†	86 †	5.0 †	80 †	28	A039	OCT
52	435#2	50	750m	20u†	20m†		500n†	40 †	20k†	24 †	50 Ø	2.0MØ†	86 †	5.0 †	80 †	28		CN☑
53	416#2	50	1.0	500u†	100m†		200n†	40 †	20k†	36 †	8.0 Ø	2.0MØ†	56 †	5.0 †	80 †	28		OCT
54	440KR#2	50	1.0	500u	100m		200n	40		44	4.0 Ø	25k	650	5.0	80	58	A135	MP190
55	1791	50	1.2 †						10M†	32	2.0	5.0MØ†	385m	1.5 †		04		MP5y
56	1034-01	52	208m*	5.0u	10m†Δ	3.0n†	50n§	40	1.0M†	40	44m	1.0MØ	100	6.0	86	28		MP5bv
57	1034	52	208m*	15u	10m†Δ	3.0n†	50n§	40	1.0M†	40	44m	1.0MØ	100	6.0	86	28		MP5bv
58	1005	52	364m	20u	Δ		25n	40	250k	40	10	1.5MØ†	89	1.2	80	28		MP5c
59	H2030BL	52	416m	500n	100u		80p	SE	600k	40	20m	1.0M	120	12 †		28		MP2e
60	D20B	52	416m†	10u	.50m	15n		30	500k	40	40m	1.0MØ	100	1.8	70 †	58		MP2
61	MCC1536	56	224m		5.0m§	3.0n§	20n§	50	10M†	44	5.0kØ			2.0 †	110 †	5C	A118	FC3
62	MC1536G	56	224m		7.0m	7.0n	35n	48	10M†	44	5.0kØ	1.0M†Ø	100	2.0 †	80	5F	A118	TO99
63	SG1536T	56	224m		7.0m	7.0n	35n	48	10m†	44	5.0 Ø	1.0M†Ø	100	2.0 †	80	5F	A118	TO99
64	H9030A	56	224m	4.6u	.67mΔ	53n	.15u	40	250k	40	70m	2.0M	100	3.2 †	75	4A		MP5ac
65	H9030B	56	224m	4.6u	.67mΔ	53n	.15u	40	250k	40	70m	2.0M	100	3.2 †	75	4A		MP2d
66	MCC1436	56	280m		10m§	10n§	40n§	50	10M†	40	5.0kØ			2.0 †	110 †	5C	A118	FC3
67	MC1436CG	56	280m		12m§	25n	90n§	36	10M†	40	5.0kØ	1.0M†Ø	94	2.0 †	50	07	A118	TO99
68	SG1436CT	56	280m		12m	25n	90n	36	10m†	40	5.0 Ø	1.0M†Ø	94	2.0 †	50	07	A118	TO99
69	MC1436G	56	280m		14m	14n	55n	44	10M†	40	5.0kØ	1.0M†Ø	96	2.0 †	70	07	A118	TO99
70	SG1436T	56	280m		14m	14n§	55n§	44	10M†	40	5.0kØ	1.0M†Ø	96	2.0 †	70	5C	A118	TO99
71	D26	56	280m†	20u	Δ	20n		36	300k	40	10m	1.0MØ	98	600m	80	58		MP5g
72	H7030A	56	336m	24u	1.9mΔ	20p	50p	30	100k	40	18m	2.0M	90	5.5 †	65	4A		MP5ab
73	H7030B	56	336m	24u	1.9mΔ	20p	50p	30	100k	40	18m	2.0M	90	5.5 †	65	4A		MP2c
74	403	56	448m†	50u†	Δ		300n†§	4.0	300k†	40	6.0	300k†Ø	69	1.5	60 †	5F		MP167a
75	409	56	560m†	6.0u†	Δ		500n†§	30	300k†	40	30	600k†Ø	95	200m	90 †	5F		MP168
76	D35	56	2.0	65u	5.0m		50n	37	500k	37	500m	800kØ	86	1.0	90 †	5A		MP7a
77▼	1788	60	480m	20u		5.0n	50n	40	1.0M	40	40m	1.0M	108	1.2	80	48		MP396
78	415	60	720m	.50u†	100m†		.20u†	48	20k†	50 †	25mØ	2.0M†Ø	57 †	5.0 †	80 †	28	A039	OCT
79▼	2043	60	1.5	20u	5.0m	1.0u	5.0u	10	100k	50	60m	5.0M	88	100	60	07		MP395
80♦#	SI1050GS	66	2.3	200u	60m	2.0u	10u	56	2.0k	60	3.3	100k	70	100m	50	28	A251	MP329
81	400	70	770m†	10u†	10m†		.50u†	60 †	20k†	60 †	50kØ	2.0M†Ø	94 †	5.0 †	80 †	57		MP41
82	4009#3	72	576m	500u†	100m†		200n†	60 †	20k†	20 †	2.0kØ	30MØ†	58 †	10 †	80 †	57	A040	CN14
83	432§	72	2.0	500u	100m	1.0u	.20u	60	500k	60	5.0	50k	54	5.0	80	28		OCT
84	416#3	72	2.1	500u†	100m†		200n†	60 †	20k†	60 †	16 Ø	2.0M†Ø	58 †	5.0 †	80 †	28		OCT
85	440KR#3	72	2.1	500u	100m		200n	60		60	8.0 Ø	25k	800	5.0	80	58	A135	MP190
86	NH0004-883	80	8.0m	4.0u†	200	100n	300n	70	500k	70	5.0kØ	5.0MØ	100	250n	70	5C	A004	
87	LH0004H	80	10m	4.0u†	2.0m	100n	300n	80		60	2.0kØ		88		70	5C	A004	CN8
88	LH0004CH	80	10m	4.0u†	3.0m	150n	300n	80		60	2.0kØ		88		70	08	A004	CN8
89	A161	80	800m	50u	Δ		20p§	20	100G	72	300m	1.0mØ	94	20	80	28	A044	MP5bs
90	9736	100	800m	20u	10m	15p	50p	80	100G	90	20m	10M	90	30	110	5A		MP268
91	1727	120	1.0 †	50u	Δ	30p†	100p	40 †	10G†	100	40m	10MØ	100	20	74	58		MP36
92	A160	120	1.2	25u☑	1.0m§Δ		10p§	100	100G	100	10m	6.0M†Ø	106	15	90	28	A097	MP5ab
93♦	180B	120	1.2	20	Δ	10p	30p	100	1.0T	220	40m	150k	110	100	100	28		MP2u
94▼	181B	120	1.2	20	Δ	10p	30p	270	1.0T	280	40m	150k	110	100	100	28		MP2u
95♦	180A	120	1.2	50	Δ	10p	30p	100	1.0T	220	40m	150k	110	100	100	28		MP2u
96▼	181A	120	1.2	50	Δ	10p	30p	270	1.0T	280	40m	150k	110	100	100	28		MP2u
97	9697	120	1.6	400u	20m	1.0u	5.0u	100	5.0k	100	40m	100M§	76	100	26	27		MP209
98	9699	160	2.4	50u	20m	30n	100n	150	10M	150	20m	100M§	80	100	40	57		MP210
99	1957	240	1.2		2.0m		4.0n	40	10G	200	20m	20k	100	12	60	06		MP207
100	1022	240 ♦	2.4	50u	Δ	30p§		210	100G†	220	40m	1.0MØ	120	30 †	93 †	28		MP124
101	3460	240 ♦	2.4	50u§	1.0m§	10p†	25p§	280	100G†	280	20m	1.0MØ	106	10	90 †	28		MP287d
102	3271-25§	240	4.8	1.0u	110u		200p		500k†	100	40m	1.0MØ	140	20		28		MP290b
103	A301	250	2.0	25u☑	3.0m§Δ		10p§	230	100G†	230	10m	1.0MØ	100	10	100 †	28	A132	MP5bg
104	A303	250	2.0 †	25u	3.0mΔ§		10p§	230	100G†	230	40m	20k†	100	10	100 †	28	A044	MP5bs
105	136K2	250	2.0	50u	500u	100p		240	100G†	200	20m	1.0MØ	100	20	100	07		MP53
106	A300	250	2.0	50u☑	3.0m§Δ		10p§	230	100G†	230	10m	1.0MØ	100	10	100 †	28	A133	MP5bg
107	A302	250	2.0 †	50u	3.0mΔ§		10p§	230	100G†	230	40m	20k†	100	10	100 †	28	A044	MP5bs
108	1527	250	3.0 †	30u	Δ	30n†	200n	20 †	250k†	200	20m	1.0MØ	100	10	80	28		MP36
109	D41	300	9.6	20u	5.0m	500n		38	150k	250	500m	500kØ	100			58		MP117

4. DIFFERENTIAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS 1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX VOLTAGE 3 DRFT (V/°C)	4 OFST (V)	MAX CURRENT OFFSET (A)	BIAS (A)	MIN.-@25°C CM RANGE (ΔV)	DIFF IMP. (Ω)	MIN. OUTPUT CHAR.@25°C P-P VOLT. (ΔV)	P-P CUR. (ΔA)	MIN TRANSFER CHAR @ 25°C 3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	NE515A	9.0 §	21m	5.0u	4.0m		40u	2.0	1.4k	5.3		1.0M	68		100	07	B016	TO116
2	NE515G	9.0 §	21m	5.0u	4.0m		40u	2.0	1.4k	5.3		1.0M	68		100	07	B016	TO91
3	NE515K	9.0 §	21m	5.0u	4.0m		40u	2.0	1.4k	5.3		1.0M	68		100	07	B016	TO100
4	SE515A	9.0 §	21m	5.0u	4.0m		40u	3.0	1.4k	5.3		1.0M	68		100	07	B016	TO116
5	SE515G	9.0 §	63m	5.0u	3.0m		40u	2.5	1.0k	5.7		1.0M	71		100	5C	B016	TO91
6	SE515K	9.0 §	63m	5.0u	3.0m		40u	2.5	1.0k	5.7		1.0M	71		100	5C	B016	TO100
7	CA3050§	10 ♦§			5.0m§	70n§	500n§		460kt			4.3Mt			65 †	5C	B038	MP3
8	CA3051§	10 §♦			5.0m§	70n§	500n§		460kt			4.3Mt			65 †	28	B038	TO116
9	MFC8030	12			10m§			10					32 †		35 †	07	B039	MP131a
10	CA3049T§	12 §♦		1.1ut§	250ut§	300nt§	33u§	5.0	3.5kt	12		500M§†	22 †		100 †	5C	B048	Δ006AG
11	CA3102E§	12 §♦		1.1ut§	5.0m§	3.0u§	33u§	5.0	3.5kt	12		500m§†	18		100 †	5C	B049	Δ001AB
12	CA3006§	12	26mt		1.0m§†	1.4u§†	40u§	6.0 Δ§	1.4k						101 †	5C	B020	CN18
13	CA3004§	12	26mt		5.0m§	5.0u§	40u§	6.0 Δ§	12kt						98 †	5C	B019	CN18
14	CA3005§	12	26mt		5.0m§	1.4u§†	40u§	6.0 Δ§	1.4kt						101 †	5C	B020	CN18
15	CA3005H§	12	26m		5.0m§	1.4u§†	40u§	6.0 Δ§	1.4kt						101	5C	B020	FC16
16	CA3007§	12	30mt		5.0mt	5.0u§	34u§	5.0 Δ	4.0kt						77 †	5C	B024	CN18
17	CA3000	12	30mt		8.0m§	10u§	36u§	4.0 Δ	70kt	6.4 †		650kt	28		80	5C	B018	CN10d
18	CA3053Ø§	12	120m				125u§				3.5m					5C	B021	TO99
19	CA3001§	12	120m		1.5m§†	10u§	36u§	5.0 Δ	50k	5.0 †		16Mt	16		70	5C	B023	CN18
20	CA3001H§	12	120m		1.5m§†	10u§	36u§	5.0 Δ	50k	5.0 †		16Mt	16		70	5C	B023	FC16
21	MIC730-5C	12	156m		7.5m	5.0u	20u	7.0	2.5k	5.0	100kØ	1.0M	20		60	07	B003	TO99
22	MIC730-1C	12	156m	3.0u	3.5m	3.0u	15u	7.0	5.0k	5.0	100kØ	1.0M	20		70	5C	B003	TO99
23	SE511B§	12	180m		3.5m	7.5u	40u								60	5C	D026	MP153
24	SE511R§	12	180m		3.5m	7.5u	40u								60	5C	D026	FP13
25	uA730HM	12 §	180m		3.5m	3.0u	15u	3.5 §	5.0k	5.0	100kØ	1.0M	60		70	5C	B003	TO99
26	NE511B§	12	180m		4.0m	9.0u	40u								60	07	D026	MP153
27	NE511R§	12	180m		4.0m	9.0u	40u								60	07	D026	FP13
28	uA730HC	12 §	180m		7.5m	5.0u	20u	3.5 §	2.5k	5.0	100kØ	1.0M	60		60	07	B003	TO99
29▼	SN5511FA§	12	180mt	4.0ut	5.0m§	7.0u§	15u§	4.5 §	5.0kt	2.5	5.0kØ	3.0Mt	61 †		95 †	5C	B029	FP2t
30	SN5511L§	12	180mt	4.0ut	5.0m§	7.0u§	15u§	4.5 §	5.0k	2.5	5.0kØ	3.0Mt	61 †		95 †	5C	B029a	Δ006AD
31	SN5511N§	12	180mt	4.0ut	5.0m§	7.0u§	15u§	4.5 §	5.0k	2.5	5.0kØ	3.0Mt	61 †		95 †	5C	B029	Δ001AA
32	SN7511L§	12	180mt	4.0ut	5.0m§	10u§	20u§	2.0	5.0k	1.5	5.0kØ	3.0Mt	55 †		90 †	07	B029a	Δ006AD
33	SN7511N§	12	180mt	4.0ut	5.0m§	10u§	20u§	2.0	5.0k	1.5	5.0kØ	3.0Mt	55 †		90 †	07	B029	Δ001AA
34▼	SN7511FA§	12	180mt	4.0 †	5.0m§	10u§	20u§	2.0	5.0kt	1.5	5.0kØ	3.0Mt	55 †		90 †	07	B029	FP2t
35	SN52733L§	12	288m			3.0u§	20u§	2.0	4.0kt	3.0	2.0kØ	50Mt	39		70 †	5C	B046	TO100
36	SN72733L§	12	288m			5.0u§	30u§	2.0	4.0kt	3.0	2.0kØ	50Mt	38		70 †	07	B046	TO100
37	SN72733N§	12	288m			5.0u§	30u§	2.0	4.0kt	3.0	2.0kØ	50Mt	38		70 †	07	B046	MP39h
38▼	SN52733FA§	12	288m		1.5 §	3.0u§	20u§	2.0	4.0k	3.0	2.0kØ	50Mt	49		60	5C	B046	FP2t
39▼	SN52733J§	12	288m		1.5 §	3.0u§	20u§	2.0	4.0k	3.0	2.0kØ	50Mt	49		60	5C	B046	TO116
40▼	SN72733FA§	12	288m		1.5 §	5.0u§	30u§	2.0	4.0k	3.0	2.0kØ	50Mt	47		60	07	B046	FP2t
41▼	SN72733J§	12	288m		1.5 §	5.0u§	30u§	2.0	4.0k	3.0	2.0kØ	50Mt	47		60	07	B046	TO116
42	CA3000H	12	300mt		8.0m§	10u§	36u§	4.0 Δ	70kt	6.4 †		650kt	28		80	5C	B018	FC16
43#	SN2620	14 §	120m		10m	1.0u						3.0Mt	32		60	5C	B036	TO84
44	LM2900N*	15 §	150m				200n		1.0Mt	13	5.1kØ	2.5MØt	62	500m		48	B047	MP39n
45	LM3900N	15 §	150m				200n§		1.0Mt	13	5.1kØ	2.5MtØ	61	20		07	B047	MP39
46	MC1712F	18 §	120m	2.5u§	3.0m	1.5u	5.0u§	4.5 §	16k	10	100kØ	1.5M	88	1.5 †	80	5C	B010	TO91
47	MC1712G	18 §	120m	2.5u§	3.0m	1.5u	5.0u§	4.5 §	16k	10	100kØ	1.5M	88	1.5 †	80	5C	B010	TO99
48	MC1712L	18 §	120m	2.5u§	3.0m	1.5u	5.0u§	4.5 §	16k	10	100kØ	1.5M	88	1.5 †	80	5C	B010	MP139a
49	MC1712CF	18 §♦	120m	5.0u	6.5m	2.5u	7.5u§	4.5 §	16k	10	100kØ	1.5M	86	1.5 †	70	07	B010	TO91
50	MC1712CG	18 §♦	120m	5.0u	6.5m	2.5u	7.5u§	4.5 §	16k	10	100kØ	1.5M	86	1.5 †	70	07	B010	TO99
51	MC1712CL	18 §♦	120m	5.0u	6.5m	2.5u	7.5u§	4.5 §	16k	10	100kØ	1.5M	86	1.5 †	70	07	B010	MP139a
52	CA3026H	18	600m		1.1ut	5.0m	2.0u§	24u§	3.5kt	12		550Mt§	32 †		100 †	5C	Z008a	FC16c
53	CA3026Ø	18	600m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		550M§†	32 †		100 †	5C	Z008a	Δ006AG
54	LM3026H	18	600m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		550M§†	32 †		100 †	5C	Z008a	CN10e
55#	TBA341	18	750m			2.0u§	24u§	5.0					32		100 †	08	Z008	Δ001AB
56	CA3054	18	750m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		550M§†	32 †		100 †	08	Z008	Δ001AB
57	LM3054N	18	750m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		550M§†	32 †		100 †	08	Z008	MP39
58#	SFC2054EC	18	750m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		500M§†	32 †		100	07	Z008	TO116
59	SI3054CJ	18	750m	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		550M§†	32 †		100 †	5C	Z008a	Δ001AB
60	CA3054H	18	750	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		500M§†	32 †		100	5C	Z008	FC16c
61	CA3054L	18	750	1.1ut	5.0m	2.0u§	24u§	5.0	3.5kt	12		500M§†	32 †		100	5C	Z008	FC18
62	SN523A	24	100m	9.0ut	12m§	2.0u§	5.0ut§	10 †	5.0k	24 †	♦	70k	78		90 †	5C	B025	TO84
63	SN5231L	24	100mt	9.0ut	12m§	2.0u§	5.0ut§	10 †	5.0k	24 †	♦	70k	72		90 †	5C	B028	CN17c
64	SN723	24	100mt	10ut	15m§	4.0u§	6.5ut§	10 †	4.0k	20 †	♦	60k	70 †		80 †	07	B025	TO84
65	SN7231L	24	100mt	10ut	15m§	4.0u§	6.5ut§	10 †	4.0k	20 †	♦	60k	70 †		80 †	07	B028	CN17c
66	LM3053H	24	150m				125u				3.5m					5C	B021	TO99
67	LM3028BH	24	220m		2.0m	2.0u	80u	7.0	3.0k	15	4.5m	8.0mt	42		60	5C	B021	TO99
68	CA3028BØ§	24	220m		5.0m§	6.0u§	80u§	5.0 §	3.0kt	15	4.5m	8.0Mt	40		60	5C	B021	TO99
69	CA3028BS§	24	220m		5.0m§	6.0u§	80u§	5.0 §	3.0kt	15	4.5m	8.0Mt	40		60	5C	B021	
70	CA3028AØ§	24	260m				106u§				3.5m					5C	B021	TO99
71	CA3028AH§	24	260m				106u§				3.5m		42			5C	B021	FC16f
72	CA3028AL§	24	260m				106u§				3.5m		42			5C	B021	FC18
73	CA3028AS§	24	260m				106u§			–	3.5m		42			5C	B021	
74	LM3028AH	24	260m		5.0m	5.0u	106u				3.5m		42		60	5C	B021	TO99
75	uA727HM§	30	60m	1.5u	10m	15n	40n	24	300Mt	10					80	5C	B011	TO100
76	uA727HC§	30	60m	3.0u	10m	25n	75n	24	300Mt	6.0					70	28	B011	TO100
77	A280	30	75m	25u	Δ		25p§		100M	4.0	1.0kØ	200	60		115			
78	CS24	30	135m	40u	Δ		100p	20	1.0Gt	20	40m	25MØ	80	440	60	58		MP5br
79	ZEL1-02	30	150mt	2.5u	Δ		50n§	20	1.0Mt	20 †	5.0mt	1.5MØt	113	6.0	86 †	28		MP6b
80	ZEL1-03	30	150mt	5.0u	Δ		50n§	20	1.0Mt	20 †	5.0mt	1.5MØt	113	6.0	86 †	28		MP6b
81	3621L	30	150m	5u§	2.0m§	5p	10p§	20	100Gt	20	20m	10k	100 †	300mt	70	07		MP5by
82	ZEL1-04	30	150mt	10u	Δ		50n§	20	1.0Mt	20 †	5.0mt	1.5MØt	113	6.0	86 †	28		MP6b
83	3621K	30	150m	15u§	2.0m§	5p	10p§	20	100Gt	20	20m	10k	100 †	300mt	70	07		MP5by
84	3621J	30	150m	50u§	2.0m§	5p	10p§	20	100Gt	20	20m	10k	100 †	300mt	70	07		MP5by
85	ZA702M1	30	180mt	50u	Δ		15nt	20	500Mt	20	5.0m	12k		400m	80	07		MPØ
86	ZA703M1	30	180mt	60u	Δ		3.0pt	20	100Gt	20	5.0m	12k		400m	80	07		MPØ
87	1843	30	210mt	3.0u	Δ	30pt	50p	20	100Gt	20	10m	1.5MØt	109	3.0 †	73	08		MP5ak
88	603L	30	210m	50ut§	Δ		20p§	20	1.0Tt	20	10m	1.0M		2.0 †	80 †	28		MP51b
89	1861	30	210m	50u		250p	250p	20	100G	20	10m	1.0M	86	1.5	70	28		
90	1821	30	210mt	75u		100pt	100p	20	100Gt	20	10m	10MØt	86	10 †	73	28		MP5y
91	603K	30	210m	150ut§	Δ		20p§	20	1.0Tt	20	10m	1.0M		2.0 †	80 †	28		MP51b
92	603J	30	210m	500ut§	Δ		50p§	20	1.0Tt	20	10m	1.0M		2.0 †	80 †	28		MP51b
93	1895	30	210m	10	Δ	30p	30p	20	100G	20	10m	1.5M	110	3.0	94	08		MP5ak
94▼	9071	30	240m	1.0u	100u	5.0n	50n	22	100M	20	20m	1.0M§	60	1.0	100	58		MP5cg
95	A213	30	240m	2.0uØ	Δ		10p	20	100G			60		2.0	96	28	B041	MP179
96	A212	30	240m	5.0uØ	Δ		10p	20	100G			60		2.0	96	28	B041	MP179
97	A203	30	240m	25u	Δ		10p	16	100G	20	10m	5.0kØ	100	2.0	106	28	B041	MP179
98	A202	30	240m	50u	Δ		10p	16	100G	20	10m	5.0kØ	100	2.0	106	28	B041	MP179
99	A200	30	240m	70uØ	Δ		50p§	20	100G	20	10m	1.5MØ	60	2.0	80	28	B041	MP179
100	3263-14	30	300m	3.0u§	2.0m	10nt	50n§	20	300Mt	20	10m	75k	60 †	6.0 †	115 †	28		MP5bx
101	3264-14	30	300m	10u§	2.0m	10nt	50n§	20	300Mt	20	10m	75k	60 †	6.0 †	115 †	28		MP5bx
102	9070	30	360m	25u	Δ	300n	1.0u	24	100M	20	20m	20k	80	2.0	140	59		MP312
103	3620L	30	420m	250n§	1.0m§Δ	10nt	25n§	20	300Mt	20	20m	10kt	60 †	300mt	74	07		MP298
104	3620K	30	420m	500n§	1.0m§Δ	10nt	25n§	20	300Mt	20	20m	10kt	60 †	300mt	74	07		MP298
105	3620J	30	420m	2.0u§	1.0m§Δ	10nt	25n§	20	300Mt	20	20m	10kt	100 †	300mt	74	07		MP298
106	273J	30	450m	100u	50m§		50p§	1.0k	1.0T	6.0	50kØ	4.0k	0.0		115	07		MP253
107	272J	30	450m	125u	50m§		50p§	1.0k	1.0T	6.0	50kØ	2.0k	0.0		115	07		MP253
108	L140AA§	30	500m		5.0m	15n§	75n§	24		24	1.2m	300k	70	200m	80	5C		TO99
109	L140CA§	30	500m		10m	30n§	100n§	24		20	1.0m	300k	60	200m	70	07		TO99
110▼	176B	30	540m	20	Δ	10p	50p	20	1.0T	20	40m	5.0M	100	500	70	28		MP199a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

4. DIFFERENTIAL AMPLIFIERS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE				MIN.-@25°C		MIN. OUTPUT CHAR.@25°C		3dB BW	O.L. VOLT. GAIN	SLEW RATE	CMRR	T E M P	C O D E	CKT.	DRAWINGS OUT-LINE Δ=MO
		1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	MAX VOLTAGE OFFSET (A)	MAX CURRENT BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	(Hz)	(dB)	(V/uS)	(dB)	-+			
1▼	176A	30	540m	40	Δ	10p	50p	20	1.0†	20	40m	5.0M	100	500	70	28			MP199a
2	3061-25	30	600m	3.0u§	1.0m§Δ	10n†	20n§	20	10M	20	20m	50k	60 †	1.2	110 †	28			MP290
3	3161-25	30	600m	10u§	1.0m§Δ	10n†	20n§	20	10M	20	20m	50k	60 †	1.2	110 †	28			MP290
4	CS23	30	750m	25u	Δ	15n			250k	20	200m	100MØ	92	600		05	A136		MP199c
5	HFS23	30	750m	25u	Δ	150n			250k	20	60m	30MØ	96	400		59	B043		CN2g
6	HVA23	30	750m	25u	Δ	150n			250k	20	60m	100MØ	96	600		59	B044		CN2g
7	FS23	30	1.0	10u§	Δ	15n§			250k	20	60m	20MØ	106	400		06			MP83a
8	46K	30	1.6	25u	2.0mΔ		100p§	20	100G	20	200m	40MØ	88	1.0k	86	28			MP254
9	46J	30	1.6	75u	2.0mΔ		100p§	20	100G	20	200m	40MØ	88	1.0k	86	28			MP254
10	1894	30	300	50u	Δ	100p	100p	20	10G	20	10	10M	86	12	94	28			
11	602K100	32	448m	2.0u	100uΔ§		50n§	20	1.0G†	20	8.0m	75k			86	07			MP138
12	602J100	32	448m	10u	200uΔ§		50n§	20	1.0G†	20	8.0m	75k			86	07			MP138
13	602J10	32	448m	10u	300uΔ§		50n§	20	1.0G†	20	8.0m	75k			75	07			MP138
14	601%	32	1.9	2.0u	150uΔ§		10n§	20	10M†	20	40m	30k	26		120	27			MP18
15	300B	36	432m	25u§	Δ	100p§		20	100G	22	10m	15k§	60	2.0	86	27	B042		MP200
16	300A	36	432m	50u§	Δ	100p§		20	100G	22	10m	15k§	60	2.0	86	27	B042		MP200
17	3625C	36	500m	500n	500u		100n	30	300M	20	10m	50k	100 †	300m†	80 †	28			MP5bx
18	3625B	36	500m	1.0u	500u		100n	30	300M	20	10m	50k	100 †	300m†	80 †	28			MP5bx
19	3625A	36	500m	3.0u	500u		100n	30	300M	20	10m	50k	100 †	300m†	80 †	28			MP5bx
20	825	36	1.6	75u	3.0mΔ		100p	20	100G	20	200m	35M	90 †	1.0k	80 †	5C			MP196
21	3501C	40	60m	5.0u	2.0m	2.0n	3.0n	32	10M	30	10m	5.0	100	100m	100	28			TO99
22	3501B	40	60m	10u	2.0m	3.0n	7.0n	32	10M	30	10m	5.0	100	100m	100	28			TO99
23	3501S	40	60m	10u	2.0m	3.0n	7.0n	32	10M	30	10m	5.0	100	100m	100	5C			TO99
24	3501A	40	60m	20u	5.0m	5.0n	15n	32	10M	30	10m	5.0	100	100m	100	28			TO99
25	3501R	40	60m	20u	5.0m	5.0n	15n	32	10M	30	10m	5.0	100	100m	100	5C			TO99
26	LH101D§	40	500m	6.0u†	6.0m	500n☑	1.5u☑	24	300k	24	10m		93		70	5C	A001		TO116
27	LH101F§	40	500m	6.0u†	6.0m	500n☑	1.5u☑	24	300k	24	10m		93		70	5C	A001		TO91
28	LH101H§	40	500m	6.0u†	6.0m	500n☑	1.5u☑	24	300k	24	10m		93		70	5C	A001		TO99
29	LH201D§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001		TO116
30	LH201F§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001		TO91
31	LH201H§	40	500m	10u†	10m	750n☑	2.0u☑	24	150k	24	10m		86		65	07	A001		TO99
32	770-401-301	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	0.0	350 Ø	80	05			MP44
33	770-401-302	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	6.0	350 Ø	86	05			MP44
34	770-401-305	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	14	350 Ø	94	05			MP44
35	770-401-310	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	20	350 Ø	100	05			MP44
36	770-401-320	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	26	350 Ø	106	05			MP44
37	770-401-350	44	1.1 †	50u	Δ			20	100M	20	20m	2.0M	34	350 Ø	114	05			MP44
38	770-440-1	44	1.3	2.5u	Δ	4.0n		20	10M	20	1.0kØ		60	1.0	110	05			MP45
39	770-440-2-1000	44	1.3	2.5u	Δ	4.0n		20	10M	20	1.0kØ		60	1.0	110	05			MP45
40	770-440-2-500	44	1.3	3.0u	Δ	4.0n		20	10M	20	1.0kØ		54	1.0	110	05			MP45
41	770-440-2-200	44	1.3	4.5u	Δ	4.0n		20	10M	20	1.0kØ		46	1.0	110	05			MP45
42	770-440-2-100	44	1.3	7.0u	Δ	4.0n		20	10M	20	1.0kØ		40	1.0	110	05			MP45
43	770-440-2-50	44	1.3	12u	Δ	4.0n		20	10M	20	1.0kØ		34	1.0	110	05			MP45
44	1915	52	624m	25u	Δ	50p§		10	10G†	10	40m	10MØ†	100	20 †	100 †	58			MP5z
45	391	230	6.0 †	1.0m	Δ			20	10M†	20	100m	100k		4.0	60				

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

5. AUDIO AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER
(3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP@25°C RATED SPECS [1] TOT. VOLT (ΔV)	[2] MAX IDLE P (W)	3dB BANDWDTH [3] MIN. UPPER (Hz)	MAX. LOWER (Hz)	TRANSFER CHARACTERISTICS @25°C [4] MIN. VOLT. GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	ΔTEMP GAIN VAR. (dB)	INPUT @25°C MIN. RESIST (Ω)	MAX. VOLTS P-P (ΔV)	OUTPUT CHAR. @25°C MAX. RESIST (Ω)	MIN. VOLT. P-P (ΔV)	MIN. POWER (W)	@ LOAD RES. (Ω)	T C O M P	D E	CKT.	DRAWINGS OUT-LINE Δ=MO
1#	TAA370	1.3 §	650u	4.7k†		88	6.0		4.0					1.0m		15		C021	TO89
2	OM200	1.3 §	1.5m	20k		75Δ	6.0	10			10		10	200u	500			C011	MP33
3#	AN127	1.3	1.6m		0.0	75Δ	6.0	10						200u			2A	C011	TO72
4#	TAA131	1.3	1.6m	20k	40	5.0		10	8.0 †	3.0k			350m†				3C		MP33
5#	OM200S2	1.3 §	14m	20k		77	6.0	10		400k†	5.0		5.0				28	C011	MP33
6	RM8321G	1.5 §	100m			70	2.5 *	8.0		40k†				3.0m	3.0k		07	C049	TO89
7	RM8322G	1.5 §	100m			70	2.5 *	8.0		40k†				3.0m	3.0k		07	C049	TO89
8	RM8311G	1.5 §	100m			80	2.5 *	8.0		40k†				3.0m	3.0k		07	C049	TO89
9	RM8312G	1.5 §	100m			80	2.5 *	8.0		40k†				3.0m	3.0k		07	C049	TO89
10	RM8341DP	1.8	100m	150	10k	70	2.5	1.0		250k				150u	1.0k		07		TO116
11	RM8341G	1.8	100m	150	10k	70	2.5	1.0		250k				150u	1.0k		07		TO89
12#	TAA293A	6.0		600k$		70	10							10m			26	C093	TO74
13	CA3020H§	6.0 §		8.0M†		75†Δ	70 §†	10		1.0k†		200 †		550m	130		5C	C022	FC16d
14	LM372H§	6.0 §	10m†	2.0M†		47	50 *†			4.0k		1.8k	350m				07	C005	TO99
15	LM372N§	6.0 §	10m†	2.0M†		47	50 *†			4.0k		1.8k	350m				07	C005	MP39n
16	LM172H§	6.0 §	10m†	2.0M†		50	50 *†			4.0k		1.8k	400m				5C	C005	TO99
17	LM272H§	6.0 §	10m†	2.0M†		50	50 *†			4.0k		1.8k	400m				27	C005	TO99
18	LM272N§	6.0 §	10m†	2.0M†		50	50 *†			4.0k		1.8k	400m				27	C005	MP39n
19	TAA103	6.0	90m	600k†	DC	70Δ	12	5.0			10			8.0m	150		2A	C011	MP33
20	TAA263	6.0	96m	600k†	DC	70Δ	10	5.0			10			8.0m	150		2A	C011	TO72
21#	TAA960	6.0 §	150m	150k	20	60	50 §	2.0		25k		750					56	Z115	CN8h
22	TAA293	6.0 §	160m			80Δ†	10	10			20			10m	150		27	C037	CN27
23▼#	M5156P	6.0	240m			120	1.0 *†			10k				1.5	8.0		17	C117	MP55
24#	AN215	6.0 §	480m			80	16 Δ	1.5			12		1.6	1.0	8.0		27	C112	MP353
25#	TAA310A	7.0		15k		93	4.0			20k†			2.0				26	C036a	TO74
26	TAA310	7.0	100m	15k		90	4.0	10			12		5.6	4.0m	1.0k		27	C036	CN27
27#	AN136	7.0	100m	15k		93	4.0			20k†				4.0m	1.0k		27	C036	CN27
28#	TAA420	7.5	90m	20k		31				40k			1.5 †				18		TO97
29#	M5101P	7.5 §	113m	10k	100	100	3.0 *	500m†		20k†				700m†	8.0		17	C029	MP55
30#	TAA611B12	9.0		15k	50	68†	75 §†	5.2		750k†			3.0	50m	8.0		2C	C082a	MP246
31	MC1306P	9.0 §	36m†			99†	55 †	1.0 †				500m†		200m	16		07	C057	MP161
32	HEPC6003-RT	9.0 §♦	54m				15mΔ	4.5						250m			17	C078	MP223
33	CA3035*	9.0 §	67m	500k†	1.0k	40	7.0				1.0	270 †	2.0 †		10k		5C	E016	CN10d
34	CA3035H*	9.0 §	67m	500k†	1.0k	40	7.0				1.0	270 †	2.0 †		10k		5C	E016	FC16h
35#	TAA300	9.0 §	72m†	25k†	100		6.0 †	3.0		10k	10m			1.0 †			2C	C031	TO74
36♦	MFC4000B	9.0 §	100m†					10 †						250m	16		17	C078a	MP223
37#	SFC2790M	9.0 §♦	108m†	25k	40	34		10		50M†	12		7.9	1.2	8.0		5F	C102	TO100
38	TBA790KSC	9.0 §♦	108m†	25k	40	34		10		1.0M	12		7.9	1.2	8.0		2C	C102	MP246
39	TBA790LSA	9.0 §♦	108m†	25k	40	34		10		50M†	12		7.9	1.2	8.0		2C	C102	MP246
40	TBA790LSC	9.0 §♦	108m†	25k	40	34		10		1.0M	12		7.9	1.2	8.0		2C	C102	MP247
41	TBA790MSA	9.0 §♦	108m†	25k	40	34		10		50M†	12		7.9	1.2	8.0		5F	C102	TO100
42#	TCA160%	9.0 §	135m			70†	80 †	700m†		15k†				900m†	8.0		2C	C107	MP357
43#	TCA160B	9.0 §	135m			70†	80 †	700m†		15k†				1.0 †	8.0		2C	C107	MP256
44#	TBA641A12	9.0	162m	20k	40	46†	2.5 †*	10		3.0M†	12			1.8	400m		17	C083	MP246
45#	M5106P§	9.0	180m	50k	50	70†		650m†	30	20k†				700m	8.0		27	C062	MP55
46#	TBA460§	9.0 §	202m	70k	30	72†	2.5 *†	300m†			3.2						07	Z276	MP337a
47#	TBA460Q§	9.0 §	202m	70k	30	72†	2.5 *†	300m†			3.2						07	Z276	MP217a
48#	SFC2150RM	9.0 §♦	220m†	25k	40	34		10		1.0M	12			4.0	4.0		5F	C102a	CN22c
49▼#	M5155P	9.0	315m			60		700m†		100k				1.0 †	8.0		17	C116	MP55
50	CA3020§	9.0 §	350m†	8.0M†		75†Δ	70 §†	10		1.0k†		130 †		400m	130		5C	C022	CN10n
51	CA3020A§	9.0 §	525m†	8.0M†		75†Δ	66 §†	10		1.0k†		200 †		400m	130		5C	C022	CN10n
52#	M5115P	9	540m			139	2.0 *			60k†				1.5	8		17	C091	MP265
53#	TAA611A12	9.0	1.5	15k	50	68†		1.7		750k†	12		4.8	500m	8.0		5C	C082a	MP246
54#	TAA611A55	9.0	1.5	15k	50	68†		1.7		750k†	12		4.8	500m	8.0		5F	C082	TO100
55#	AN274	10	200m	30k	50	38	500mΔ	1.5		30k†				800m†	8.0		26		CN27
56	HEPC6064P-RT	11 §				103											47	C077	MP263
57#	TAA611E12	12		20k	50	68		3.0		250k	6.0			1.0	8		48	C082a	MP246
58#	TAA611E55	12		20k	50	68		3.0		250k	6.0			1.8	8		48	C082a	TO100
59#	TBA915%	12 §	24m	6.0k			72 †	5.0 †		9.0k†				500m†			5C	C113	CN27a
60	CA3007§	12	30m†	20k†	DC	20Δ		280m†		4.0k†	5.0	60 †					5C	B024	CN18
61♦#	TCA210#2	12	96m†	1.0M%		54				1.3k†	260m			500m†	25		36	C092	MP252a
62♦#	TCA210#1	12	96m†	10M%		80	6.0			500 †	1.5m			2.5m†	800		36	C092	MP252a
63#	TCA160	12 §	103m†	20k	60	70†	80 §†	10 †		15k†	13m*			2.0 †	8.0		2C	C107	MP337b
64#	TCA160Q	12 §	103m†	20k	60	70†	80 §†	10 †		15k†	13m*			2.0 †	8.0		2C	C107	MP256
65	LM170H§	12 §	120m			37		600m		35k	39	4.5k	5.0				5C	C004	CN8
66	LM270H§	12 §	120m			37		600m		35k	39	4.5k	5.0				27	C004	CN8
67	LM370§	12 §	120m	1.4M		35		600m		15k	39	4.5k	6.0				07	C004	CN17
68	LM170§	12 §	120m	1.4M		37		600m		15k	39	4.5k	6.0				27	C004	CN17
69	LM270§	12 §	120m	1.4M		37		600m		15k	39	4.5k	6.0				5C	C004	CN17
70	LM370H§	12 §	144m			35		600m		35k	39	4.5k	5.0				07	C004	CN8
71	LM370N§	12 §	144m			35		600m		35k	39	4.5k	5.0				07	C004	MP39n
72#	SL630C§	12 §♦	156m			43*	10			3.6kΔ	140m*	3.0	7.0	190m	40		5C	C050	CN27b
73	CA3048*	12 §	210m	250k		53§	2.0 †	650m†		90k†	1.4	1.0k†	5.6				28	C047	MP104
74#	TCA120	12	240m				300 Δ			100k†		4.0 †		4.0 †	4.0		28	C105	MP325
75#	TAA611CX1	12	2.8	15k	50	70†		1.5		750k†	2.0		6.3	50m	8.0		07	C082a	MP247
76#	M5111AP	14	119m			55	2.0 *	220m†		30k							27	C090	MP14j
77	LM381N*	14 §♦	140m	75kØ†	0.0	104	1.6	100m†	75	100k	300m	150 †	12 †				07	C115	MP39n
78▼	MC1385P	14 §	144m†					10 †		5.0k				5.0			48		MP307
79#	M5112Y	14 §	168m	30k	70	37†*		150m†		6.5k†				4.0 †	4.0		27	C079	CN24
80	LM382N*	14 §♦	224m	75kØ†	0.0	100	2.8	300m	60	100k	300m	150 †	12 †				07	C108	MP39n
81#	TBA810	14	280m	20k	40	80†	2.0u*	10		5.0M†		4.0 †		5.5 †	4.0		28	C105	MP325
82#	TBA810A	14	280m	20k	40	80†	2.0u*	10		5.0M†		4.0 †		5.5 †	4.0		28	C105	MP324
83	uA706APC	14 §	420m			43		300m†		3.0M†			6.5	4.5			38	C114	MP359
84	uA706BPC	14 §	420m			43		300m†		3.0M†			6.5	4.5			38	C114	MP360
85	MFC8021A	14 §	420m	50k†Ø	90 †	87†	18 †*	5.0						1.0 †	3.2		17	C104	MP259
86#	TBA641B11	14	448m	20k	40	46†	3.4 †*	10		3.0M†	18			4.0	4.0		17	C083	MP246
87#	TBA641BX1	14	448m	20k	40	46†	3.4 †*	10		3.0M†	18			4.0	400m		17	C083	MP247
88	TAA435	14 §	400	10k		80†	6.0 †	10			10		40	4.0			28	C035	TO74
89	TBA790KSB	15 §♦	210m†	25k	40	34		10		1.0M	12		10	2.1	8.0		2C	C102	MP247
90	TBA790KSD	15 §♦	210m†	25k	40	34		10		1.0M	12		13	3.4	8.0		2C	C102	MP264
91	TBA790LSB	15 §♦	210m†	25k	40	34		10		1.0M	12		10	2.1	8.0		2C	C102	MP246
92	TBA790NSD	15 §♦	210m†	25k	40	34		10		1.0M	12		13	3.5	8.0		2C	C102	MP264
93	CA3048H*	16				53				90k†		1.0k†	2.4 †				5C	C047	FC16k
94#	TAA611F12	16		20k	50	68		3.0		250k	6.0			2.1	8		48	C082a	MP246
95	MFC6040	16 §		6.0M†	0.0	11*		1.0			1.4 *		8.0 †				07	C069	MP166
96▼#	AN374	16	155m	15k	70	35	60	1.5	2.0	20k	50		2.6	850m	8.0		16	C123	CN27
97	TCA150KB	16 §♦	220m†	25k	40	34		10		1.0M	12			5.5	4.0		2F	C102a	MP247
98	TCA150NB	16 §♦	220m†	25k	40	34		10		1.0M	12			5.5	4.0		2F	C102a	MP264
99	MFC6070	16 §	288m	20k§	100 †	18†	40 †	10			280m		11	1.0	16		15	C086	MP258
100	HEPC6004-RT	16 §	290m					5.0					7.0				05	C070	MP131a
101	HEPC6008-RT	16 §♦	290m				-40	10					8.0 †	1.0			15	C086	MP258
102	HEP592-RT	16	400m	50k	10	34	1.5	1.0					12				5C	C073	CN8g
103	CA3052	16	750m	300k†		53		650m†		90k†	500m	1.0k†	2.0				28	C047	Δ001AC
104▼#	TCA830	16	5.0			75†	500uΔ	500m†			6.5m			3.0 †	4.0		4F	C105	MP325
105▼#	TCA830A	16	5.0			75†	500uΔ	500m†			6.5m			3.0 †	4.0		4F	C105	MP324
106	LM383	18		40kØ	0.0	83		1.0						5.0	4.0				
107#	TBA450	18	650u	15k	20	2.5		500m		50k	2.0	4.5	600m				06		MPØ
108#	TBA915	18 §	36m†	25k	100		75 †§	5.0 †		9.0k†		20 †			20		37		TO74
109	MFC4050	18 §	180m			42					2.5						17	C067	MP223
110	ULN2135E	18 §	180m			42					2.5						07	C067a	MP346

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

5. AUDIO AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	TRANSFER CHARACTERISTICS @25°C 3dB BANDWDTH 3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLT. GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	ΔTEMP GAIN VAR. (dB)	INPUT @25°C MIN. RESIST (Ω)	MAX. VOLTS P-P (ΔV)	OUTPUT CHAR. @25°C MAX. RESIST (Ω)	MIN. VOLT. P-P (ΔV)	MIN. POWER (W)	@ LOAD RES. (Ω)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	LM380N8	18 §	450m	100kt		92		200mt		150kt			14 †	2.5	8.0	07	C109	MP189
2	LM380N	18 §	450m	100kt		92		200mt		150kt			14 †	2.5	8.0	07	C109	MP39n
3	MFC4010A§	18 §	500m	200kt	20 †	60	6.0 †			1.0kt						17		MP223
4	MC1454G	18	900mt	600kt	40kt	31t*	300mΔt	5.0		3.0k		400mt		1.0 †	16		C018	CN8d
5	MC1554G	18	1.2	600kt	40kt	31t*	300mΔt	5.0		7.0k		200mt		1.0	16		C018	CN8d
6#	SL414A	18 §♦	1.3 †	30kt	20 †	50t	75 §t	5.0 †		20Mt		200mt		2.2 †	15		C081	MP345
7#	AN214	18	4.5			45		1.5		50k	50m			4.0	4.0	27		
8	LM377N10*	20 §	100m			66		1.0		3.0M			6.0 †	2.0		07	C110	MP335
9	LM377N*	20 §	100m			66		1.0		3.0M			6.0 †	2.0		07	C110	MP39n
10	TAA480	20 §	200m			15t		1.0 †			868m		11			07	C032	CN27
11#	SL1020§	20 §♦	216m	150kØt		25	78 Ø			15kt		600 †		20mt		2C		
12	MFC9020	22	440m	20k§	100 †	27t	40 †	10		200m	560m			2.0	16	17	C086a	MP170
13#	TAA621A11	24	180m	15k	30	74	18u*	100m		110k				4.0	16	07	C089	MP264
14#	TAA621AX1	24	180m	15k	30	74	18u*	100m		110k				4.0	16	07	C089	MP247
15#	TBA800	24	210mt			80t	6.0u*	10		1.0M				5.0 †	16	2E		MPØ
16	ULN2126A	24 §♦	344mt	100k§		65	1.8 †	500mt		250kt		100 †	850mt	30u	3.0k	38	C080	MP14w
17	ULN2126N	24 §♦	344mt	100k§		65	1.8 †	500mt		250kt		100 †	850mt	30u	3.0k	38	C080	MP50b
18#	AN264	24	400m			65		100m		50k						27	C103	TO116
19	ATP24	24	1.8	20k§	20	56	118 Ø	500m	2.0	47k	2.0	60	35	250m	600	05		CBØ
20#	SL415A	24 §♦	2.2 †	30kt	20 †	50t	75 §t	5.0 †		20Mt		200mt		3.8 †	15		C081	MP345
21	143E	25	200m	200k§	500m	20t	164 §	250m		1.0G	150	50 †	6.0			25		MP225
22	143F	25	200m	200k§	500m	20t	164 §	250m		1.0Gt	150	50 †				25		MP225
23	146	25	200m	200k§	500m	20t	3.0 *			1.0G		50 †				25		MPØ
24	144E	25	200m	200k§	500m	40t	164 §	250m		1.0Gt		50 †	6.0			25		MP225
25	144F	25	200m	200k§	500m	40t	164 §	250m		1.0Gt		50 †	6.0			25		MP225a
26#	525	25	1.4	200k	20	22	75 §t	2.0	500m	30k	10	650m	21	5.0	8.0	38	C100	MP294
27	LM1303N	26	400m	20kt	10 †	68		100mt				10k	11			07		MPØ
28	MC1303L*	26	400m	20kt	10 †	68		100mt				10k	11			07	C016	TO116
29	155L	28	504m	200k§	500m	20	136 §	500m		1.0G		50	11			25		MP193
30	155N	28	504m	200k§	500m	20	136 §	500m		1.0G		50	11			25		MP196
31	143L	28	560m	200k§	500m	20t	164 §	250m		1.0Gt	150	50 †	11			25		MP193
32	143N	28	560m	200k§	500m	20t	164 §	250m		1.0Gt	150	50 †	11			25		MP196
33	144L	28	560m	200k§	500m	40t	164 §	250m		1.0Gt	150	50 †	11			25		MP193
34	144N	28	560m	200k§	500m	40t	164 §	250m		1.0Gt	150	50 †	11			25		MP196
35	HEPC6055L-RT	30				75							4.5			07	C016	TO116
36	162	30		10 §	50k	0.0§				100M	10		10					
37	137	30	210m	10k§	200m	60t	800m*	500m		100kt		50 †				27		MP195
38	138	30	210m	10k§	200m	60t	500m*	500m		100kt		50 †				27		MP195
39	CA3043H§	30 §	260m			72		1.0 †		7.0kt			210m			5C	C026	FC16j
40	CA3043§	30 §	260m	20M	100k	72		1.0 †		7.0kt			210m			5C	C026	CN18
41	HEPC6002-RT	30 §	360m			80	3.0 *	250m		75kt		100 †				07	C072	MP131a
42	MFC8040	30 §	360m			80	3.0 *	250m♦		75kt		100 †	20 †			07	C072	MP131a
43	MM20	30	450m	20k§	20	10	125 Ø	500m	2.0	6.0k	10	5.0	20	500m	100	05		CBØ
44	PM37	30	450m	20k§	20	20	1.2 Ø	500m	2.0	10k	10	1.0	20	5.0	8.0	05		CBØ
45	1731§	30	450m	20k§	20	40	129 Ø	250m	2.0	100kΔ	8.0	100	20	500m	100	28		MP5y
46	PM40	30	450m	20k§	20	40	1.2 Ø	500m	2.0	10k	16	1.0	32	16	16	04		CBØ
47	ATP20	30	450m	20k§	20	46	125 Ø	500m	2.0	47k	8.0	5.0	20	500m	100	04		CBØ
48	AL27	30	450m	20k§	30	50	125 Ø	500m	2.0	10k	8.0	60	48	500m	600	04		CBØ
49	AML27	30	450m	20k§	30	50	129 Ø	500m	2.0	1.5k	2.0	60	48	500m	600	04		CBØ
50	AM20	30	450m	20k§	30	60	129 Ø	300m	2.0	1.5k	200m	10	20	80m	600	04		CBØ
51	FS21§	30	750m			80	10 *			250kΔ			20	40 %	1.0k	07		MP2r
52	MFC8020A	30 §	900m	50kt Ø	90 †	89t	18 †*	5.0						1.0 †	3.2	17	C104	MP259
53	LM378*	30	9.0	75kØ	0.0	100				3.0M			14	4.0	16	07		MP335
54♦#	SI1010G	34 §	510m	20k	20	30t	90 †	500m		30kt	10	300mt	25	10	8.0	17	C119	MP375
55♦#	SI1010Y	34 §	600m	20k	20	30t	90 †	500m		60kt	10	300mt	25	10	8.0	17	C096	MP219
56♦#	SI1010YP	34 §	600m	100k	20	30t	90 †	500m		60kt	10	300mt	25	10	8.0	17	C118	MP219
57♥#	AN272	34	6.0	30k	30	38	60	1.0	2.0	50k	20		6.3	5.0	8.0	16	C122	MP384
58#	L045T9	36	30m			83	120 Ø	3.0		2.0Mt	24	75 †		28m		28	C075	TO99
59	RC4739DP	36	500m	20k	10	110	2.5 *	.10		300k	28		24			07		TO116
60	HEP593-RT	36	1.2	270k		8.0		1.0	35	7.0k		200mt		1.0	16	5C	C018	CN8g
61	NE540L	40	800m	100k§		70%		1.0	100mt	20kt					250	07		TO100
62	MFC8022A	40 §	1.2	50kt Ø	90 †	90t	18 †*	5.0						1.0 †	3.2	17	C104	MP259
63#	1040	40	2.2	200k	20	22	75 §t	2.0	500m	30k	10	500m	36	10	8.0	38	C100	MP294
64	770-401-201	44	1.1	2.0M		0.0	2.0 Δ			100M	20	500m	20	20m%	1.0k	05		MP44
65	770-401-102	44	1.1	2.0M		6.0	2.0 Δ			10k	10	500m	20	20m%	1.0k	05		MP44
66	770-401-202	44	1.1	2.0M		6.0	2.0 Δ			100M	10	500m	20	20m%	1.0k	05		MP44
67	770-401-105	44	1.1	2.0M		14	2.0 Δ			10k	4.0	500m	20	20m%	1.0k	05		MP44
68	770-401-205	44	1.1	2.0M		14	2.0 Δ			100M	4.0	500m	20	20m%	1.0k	05		MP44
69	770-401-110	44	1.1	2.0M		20	2.0 Δ			10k	2.0	500m	20	20m%	1.0k	05		MP44
70	770-401-210	44	1.1	2.0M		20	2.0 Δ			100M	2.0	500m	20	20m%	1.0k	05		MP44
71	770-401-120	44	1.1	2.0M		26	2.0 Δ			10k	1.0	500m	20	20m%	1.0k	05		MP44
72	770-401-220	44	1.1	2.0M		26	2.0 Δ			100M	1.0	500m	20	20m%	1.0k	05		MP44
73	770-401-150	44	1.1	2.0M		34	2.0 Δ			10k	400m	500m	20	20m%	1.0k	05		MP44
74	770-401-250	44	1.1	2.0M		34	2.0 Δ			100M	400m	500m	20	20m%	1.0k	05		MP44
75	770-401-101	44	1.5	2.0M		0.0	2.0 Δ			10k	20	500m	20	20m%	1.0k	05		MP44
76♦#	SI1020G	46	690m	20k	20	30t	90 †	500m		30kt	10	300mt	36	20	8.0	28	C120	MP375
77♦#	SI1025A	48 §	1.4	20k	20	30t	90 †	500m		70kt	10	200mt	40	25	8.0	28	C058	MP107
78♦#	SI1025E	48 §	1.4	20k	20	30t	90 †	500m		70kt	10	200mt	40	25	8.0	28	C058	MP107
79	360BM	50	200m	15k	50	55*	125 Ø	200m	1.0	50	1.0	50	4.0	2.0m	600	28	A041	OCT
80	SE540L	50	1.0	500k§		80%		500m	100mt	20kt					250	5C		TO100
81	1757§	50	1.3	20k§	20	80	129 Ø	250m	2.0	100kΔ	16	100	40	2.0	100	28		MP5y
82	360M	50	1.5	15k	50	55*	125 Ø	200m	1.0	50	1.0	10	8.0	80m	600	28	A041	OCT
83♦#	SI1030G	54	1.0	20k	20	30t	90 †	500m		40kt	10	200mt	44	30	8.0	28	C106	MP329
84#	FSS226D	60	1.5	18kt		54*				88k	24		56	1.0 %		58		MP82
85#	FSS226C	60	1.5	30kt		49*				88k	24		56	1.0 %		58		MP82
86#	FSS226B	60	1.5	60kt		43*				88k	24		56	1.0 %		58		MP82
87#	FSS226A	60	1.5	200kt		33*				88k	24		56	1.0 %		58		MP82
88♦#	SI1050S2	62 §	1.8	20k	20	28t	90 †	500m		70kt	10	200mt	56	50	8.0	28	C121	MP129
89♦#	SI1050A	62 §	1.8	20k	20	30t	90 †	500m		70kt	10	300mt	56	50	8.0	28	C095	MP129
90♦#	SI1050E	62 §	1.8	20k	20	30t	90 †	500m		70kt	10	300mt	56	50	8.0	28	C095	MP129
91♦#	SI1050G	66	1.3	20k	20	30t	90 †	500m		40kt	10	200mt	56	50	8.0	28	C106	MP329
92#	5070	70	2.0	25kØ	15	27	80 §	500m	500m	20k	10	200m	62	50	8.0	08	C101	
93	432§	72	1.0	25k	0.0	26*	90 §	500m	1.0	100k	10	100m	60	10	4.0	28		OCT
94	A47	115	10	20k§	20	49	83 §	750m	2.0	60k	2.0	1.0	56	50	8.0	05		CNØ
95	CA3042§	140 §	270m	4.0M	0.0	30t		5.0		100kt	6.0	250 †	8.4 †		150k	08	C025	MP50
96#	TAA591§	140 §	270m	4.0M	0.0	30t		5.0		100kt	6.0	250 †	8.4 †		150k	08		MP50
97	CA3041§	140 §	275m	60k	0.0	41t		5.0		100kt	6.0	30kt	22 †			08	C024	MP50
98#	TAA691§	140 §	275m	4.0M	0.0	41t		5.0		100kt	6.0	30kt	18 †			08		MP50

6. RF/IF AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)POWER GAIN (4)UNTUNED 3dB BW (5)TYPE No.

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	MIN TRANSFER CHARACTERISTICS @25°C 3 PWR GAIN @ 50Ω LOAD & SOURCE (dB)	SPEC FREQ (Hz)	4 UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	INPUT CHAR @25°C MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	OUTPUT CHAR. @25°C MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)	T C M P	E O D E	CKT. -+	DRAWINGS OUT-LINE Δ=MO
1▼#	AN353	5.5	165m	80 *	10M						1.6 †	13pf		100uf	4.5pf		16	D042	MP385
2	MC1550F	6.0 §	15m	25 †§	60M	100M♦	20m		5.0		2.5m	7.0p		10u	20p		5C	D007	TO91
3	MC1550G	6.0 §	15m	25 †§	60M	100M♦	20m		5.0		2.5m	7.0p		10u	20p		5C	D007	CN10j
4#	SFC2006	6.0 §	26m	32 *♦	1.7M	10M		1.0mØ	3.0 †	7.0m							18	D020	TO99
5#	SL612C	6.0 §	30m	32 *♦	1.7M	10M		1.0mØ	3.0 †	56 †	700mf			33mf			5C	D021	CN11e
6#	SFC2008	6.0 §	120m	18 *♦	30M	80Mf		1.0mØ	4.0 †	36m	200uf	5.0pf					18	D021	TO99
7#	SL610C	6.0 §	120m	18 *♦	30M	85M		1.0mØ	4.0 †	280 †	700mf						5C	D020	CN11e
8#	SL611C	6.0 §	120m	24 *♦	30M	50M		1.0mØ	4.0 †	140 †	700mf						5C	D020	CN11e
9#	SFC2011	6.0 §	120m	24 *♦	30M	70Mf		1.0mØ	4.0 †	36m	100uf	5.0pf					18	D021	TO99
10	HEP590-RT	6.0 §	680m	25 ♦†§	60M	500k	10m	1.0uf	5.0 †	10	2.5m	7.0p				1.9p	2C	D007	CN8g
11#	AN253	7.5	300m		10M						1.7m			100m			27		MP178
12#	SL510C	9.0 §	270m	3.5	60M	100Mf							5.0				5C	D034a	TO100
13#	SL511C	9.0 §	270m	8.0	60M	100Mf							5.0				5C	D034	TO100
14#	AN217	9.5	400m		10M						1.2m			500m			27		MP178
15#	AN203	10	70m	152	10M														TO116
16#	AN210	10	110m	192	10M								7.6m				27		TO116
17#	TAA991D	11	70m	86 *	10M					50m	10m	100p					07		MP39
18▼	MHW709-2	12 §		18	455	30M♦				70mØ	60m		19				08		MP358
19▼	MHW709-1	12 §		18	420	40M♦				70mØ	60m		19				08		MP358
20	MHW710-2	12 §		19	470M	30M♦					20mf						08		MP358
21	MHW710-1	12 §		19	440M	40M♦					20mf						08		MP358
22	CA3049T§	12 §♦		23 †	200M	500M♦	36mf	8.0uf	4.6 †	5.0	1.5m	2.0pf		503uf	15m♦		5C	B048	Δ006AG
23	CA3102E§	12 §♦		23 †	200M	500M♦	36mf	8.0uf	4.6 †	5.0	1.5m	2.0pf		503uf	15m♦		5C	B049	Δ001AB
24	CA3004§	12	26mf	10 §	100M	120M♦			9.0	7.0 Δ							5C	B019	CN18
25	CA3005§	12	26mf	16 §	100M	120M♦			9.0	7.0 Δ							5C	B020	CN18
26	CA3005H§	12	26mf	16 §	100M	120M♦			9.0	7.0 Δ							5C	B020	FC16
27	CA3006§	12	26mf	16 §	100M	120M♦			9.0	7.0 Δ							5C	B020	CN18
28#	SL501B	12	65m	23 %♦§	30M	60	500mf	4.0nf	6.0 †		16mf		12	200uf	4.0pf		5F	D013	CN11b
29#	SL502B	12	65m	23 %♦§	30M	60	500mf	4.0nf	6.0 †		16mf		12	200uf	4.0pf		5F	D013	CN11b
30#	SL551B	12	65m	23 %♦§	30M	60	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
31#	SL552B	12	65m	23 %♦§	30M	60	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
32#	SL501A	12	65m	24 %♦§	30M	80	500mf	4.0nf	6.0 †		16mf		12	200uf	4.0pf		5F	D013	CN11b
33#	SL502A	12	65m	24 %♦§	30M	80	500mf	4.0nf	6.0 †		16mf		12	200uf	4.0pf		5F	D013	CN11b
34#	SL551A	12	65m	24 %♦§	30M	80	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
35#	SL552A	12	65m	24 %♦§	30M	80	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
36	LM703LH	12 §	96m	28 Δ†	100M		24m	2.0uf	8.0 †		1.0m	12p		30uf	4.0p		07	D002	CN47
37	LM703LN	12 §	96m	28 Δ†	100M		24m	2.0uf	8.0 †		1.0m	12p		30uf	4.0p		07	D002	MP189
38	NE510A#1	12 §	100m	25 †	60M	10Mf					400uf	4.5p	25 †	10uf	2.5pf		07	D016	TO116
39	NE510J#1	12 §	100m	25 †	60M	10Mf					400uf	4.5p	25 †	10uf	2.5pf		07	D016	TO88
40	NE511B§	12 §	100m	25 †	60M	10Mf	25m			20 Δ	2.0mf	4.5pf	25 †	10uf	2.5pf		07	D026	MP153
41	NE511R§	12 §	100m	25 †	60M	10Mf	25m			20 Δ	2.0mf	4.5pf	25 †	10uf	2.5pf		07	D026	FP13
42	SE510A#1	12 §	100m	25 †	60M	10Mf					400uf	4.5p	25 †	10uf	2.5pf		5C	D016	TO116
43	SE510J#1	12 §	100m	25 †	60M	10Mf					400uf	4.5p	25 †	10uf	2.5pf		5C	D016	TO88
44	SE511B§	12 §	100m	25 †	60M	10Mf	25m			20 Δ	2.0mf	4.5pf	25 †	10uf	2.5pf		5C	D026	MP153
45	SE511R§	12 §	100m	25 †	60M	10Mf	25m			20 Δ	2.0mf	4.5pf	25 †	10uf	2.5pf		5C	D026	FP13
46	NE510A#2	12 §	100m	30 †§	60M	10Mf					2.0mf	10pf	25 †	10uf	2.5pf		07	D016	TO116
47	NE510J#2	12 §	100m	30 †§	60M	10Mf					2.0mf	10pf	25 †	10uf	2.5pf		07	D016	TO88
48	SE510A#2	12 §	100m	30 †§	60M	10Mf					2.0mf	10pf	25 †	10uf	2.5pf		5C	D016	TO116
49	SE510J#2	12 §	100m	30 †§	60M	10Mf					2.0mf	10pf	25 †	10uf	2.5pf		5C	D016	TO88
50	LM171H	12 §	108m	22 †	100M	250M♦	17m	100uf		10				10uf			5C	D001	CN8
51	LM271H	12 §	108m	22 †	100M	250M♦	17m	100uf		10				10uf			0A	D001	CN8
52	LM171	12 §	108m	25	100M	250M♦	17m	100uf	8.0		2.5m	10pf	4.5	10uf	3.0p		5C	D001	CN17c
53	LM271	12 §	108m	25	100M	250M♦	17m	100uf	8.0		2.5m	10pf	4.5	10uf	3.0p		07	D001	CN17c
54#	SL503B	12	114m	23 %♦§	30M	60	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	CN11b
55#	SL553B	12	114m	23 %♦§	30M	60	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
56#	SL503A	12	114m	24 %♦§	30M	80	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	CN11b
57#	SL553A	12	114m	24 %♦§	30M	80	500mf	4.0n	6.0 †		16mf		12	200u	3.2p		5F	D013	FP2h
58	CA3053Ø§	12 §♦	120m	35	10M	5.0Mf	100mf	300nf	9.0		600uf	22pf		0.0	1.4pf		5C	B021	TO99
59	MFC6010	12 §	120m	40 †	10M		25m	10uf	7.0 †	10 Δ	400uf	6.0pf		35uf	2.5pf		17	D036	MP258
60	LM371H	12 §	126m	22 †	100M	250M♦	17m	100uf		10				10uf			07	D001	CN8
61	uA703HC	12 §	170m				29m		8.0 †		1.0m	18p		30uf	4.0p		07	D004	TO78
62#	MT703	12	170m	28 †	100M		29m		6.5 †		430u	9.0p		20uf	3.0p		5C	D002	CN42
63#	MT703C	12	170m	28 †	100M		23m		6.5 †		500u	11p			3.0p		07	D002	CN42
64	LS510NA	12	180m		10M	250 ♦	25mf			10	700uf Δ	4.5pf		10uf Δ	2.5pf		07	D016	TO116
65	LS510SA	12	180m		10M	250 ♦	25mf			10	700uf Δ	4.5pf		10uf Δ	2.5pf		5C	D016	TO116
66	NE510A△	12	180m		10M	250 ♦	25mf			10	700uf Δ	4.5pf		10uf Δ	2.5pf		07	D016	TO116
67	SE510A△	12	180m		10M	250 ♦	25mf			10	700uf Δ	4.5pf		10uf Δ	2.5pf		5C	D016	TO116
68	NE510AØ	12	180m			60Mf	25mf	50f%†		20 Δ	3.0mf	10pf		10uf	2.5pf		07	D016	MP153
69	NE510J	12	180m			60Mf	25mf	50f%†		20 Δ	3.0mf	10pf		10uf	2.5pf		07	D016	FP14
70	SE510AØ	12	180m			60Mf	25mf	50f%†		20 Δ	3.0mf	10pf		10uf	2.5pf		5C	D016	MP153
71	SE510J	12	180m			60Mf	25mf	50f%†		20 Δ	3.0mf	10pf		10uf	2.5pf		5C	D016	FP14
72	MC1590G	12 §	200m	40 §	60M	100M	150m	5.0u	6.0 †		400m		14 †	50u			5C	E038	TO99
73	MC1350P	12 §	204m	46 §♦	45M		200mf	1.0u	9.0 †	5.0 Δ	390uf	7.4p	20 †	30uf Δ	1.3p		07	D023	MP161
74	HEPC6059P-RT	12 §	204m	60	45M		160m	1.0u	9.0 †	8.0	390u	8.1p		4.0u	1.3p		07	D023	MP161
75#	TBA261AX2	12	240m								210uf	3.0pf	1.8				07	D035	MP246
76#	TBA261AX7	12	240m								210uf	3.0pf	1.8				07	D035	TO116
77	uA757DM	12 §	240m	65	500k		14mf		8.0 †			2.5pf	8.0 †		2.2pf		5C	D030	TO116
78	uA757DC	12 §	264m	65	500k		14mf		8.0 †			2.5pf	8.0 †		2.2pf		07	D030	TO116
79	uA757PC	12 §	264m	65	500k		14mf		8.0 †			2.5pf	8.0 †		2.2pf		07	D030	MP252f
80	MC1352P	12 §	370m	52 †♦	45M		240mf	1.0u	7.5 †	10	700uf	10p	16 †	40uf	2.0p		07	D032	MP25c
81	MC1352PQ	12 §	370m	52 †♦	45M		240mf	1.0u	7.5 †	10	700uf	10p	16 †	40uf	2.0p		07	D032	MP160
82	MC1353P	12 §	370m	52 †♦	45M		240mf	1.0u	7.5 †	10	700uf	10p	16 †	40uf	2.0p		07	D032	MP25c
83	MC1353PQ	12 §	370m	52 †♦	45M		240mf	1.0u	7.5 †	10	700uf	10p	16 †	40uf	2.0p		07	D032	MP160
84#	AN238	12	445m	45 †	58M		230mf	1.0uf									27		TO116
85▼#	BGY22	13 §	162m	17	446M	132M				25 Δ			11				4A		MP398
86▼#	BGY22A	13 §	162m	17	446M	132M				25 Δ			11				4A		MP398
87#	TBA120	14	250m	60 *	10M					3.0			3.5				16	D029	MP39
88#	TBA120A	14	250m	60 *	10M					3.0 -			3.5				16	D029	
89#	TAA661A	15				5.0k				8.0 Δ	400u	8.0p	1.4				0A		TO100
90#	TAA661B	15				5.0k				8.0 Δ	400u	8.0p	1.4				0A		
91#	TAA661C	15				5.0k				8.0 Δ	400u	8.0p	1.4				0A		
92	LM172H§	15 §♦	40m	50 Ø†	455k	2.0M♦†				500m							5C	C005	TO99
93	LM272H§	15 §♦	40m	50 Ø†	455k	2.0M♦†				500m							27	C005	TO99
94	LM272N§	15 §♦	40m	50 Ø†	455k	2.0M♦†				500m							27	C005	MP39n
95	LM372H§	15 §♦	48m	50 Ø†	455k	2.0M♦†				500m							07	C005	TO99
96♦	LM372N§	15 §♦	48m	50 Ø†	455k	2.0M♦†				500m							07	C005	MP39n
97	HEPC6061P-RT	15 §	125mf				8.0			5.0		5.0p					07		TO116
98#	TBA400	15	350m	75 *	35M	40M			6.0	250m			15				16		
99#	TBA400D	15	350m	75 *	35M	40M			6.0	250m			15				16		MP39
100	MC1349P	15 §	400m	52	45M		520mf	1.5uf	8.5 †	5.0 Δ		6.8pf	6.0 †		1.0pf		07	D040	MP161
101	CA3076§	15	500m	80		20M	6.0 †	100nf				4.0pf	4.0m		1.7pf		5C	D031	Δ002AL
102	CA3076H§	15	500m	80		20M	6.0 †	100nf				4.0pf	4.0m		1.7pf		5C	D031	FC16n
103▼#	BGY23	18 §	90m*	14	425M	90M				500mΔ			18				4A		MP398
104▼#	BGY23A	18 §	90m*	14	425M	90M				500mΔ			18				4A		MP398
105#	TBA120AS	18	250m	68 *	5.5M					3.0			1.5				06		MPØ
106#	AN238S	18	445m	38	58M			1.0uf			167mf	8.0pf	300mf	12kf	4.6pf		27	D041	TO116
107	MFC4010A§	18 §	500m	60	1.0k	20 †	4.6mf	8.8uf	6.0 †	1.4mf	1.3mf	22pf	400mf	120uf	0.0uf		17		MP223
108#	L103T1	20	170m			150M	23m		6.5 †	10 Δ	500u	11p			3.0p		07	D004	TO99
109#	L103T2	20	170m			150M	29m		6.5 †	10 Δ	280u	9.0p		20uf	3.0p		5C	D004	TO99
110	HEPC6001-RT	20 §	1.0	40 †	10M		25m	10uf	7.0 †	10 Δ	400uf	6.0pf	9.8	35uf	2.5pf		07	D036	MP186

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

6. RF/IF AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)POWER GAIN (4)UNTUNED 3dB BW (5)TYPE No.

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	MIN TRANSFER CHARACTERISTICS @25°C 3 PWR GAIN @ 50Ω LOAD & SOURCE (dB)	SPEC FREQ (Hz)	4 UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	INPUT CHAR @25°C MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	OUTPUT CHAR. @25°C MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1#	TAA640	22	350m	70	5.5M				44 †	100u†			1.6 †			26	D025	TO116
2	uA703L	24	84m	28 †	100M	250 ♦	24m	20u†	8.0 †	10	1.0m	12p	4.7	50u	4.0p	07	D039	CN1
3	LS703L	24	84m	28 †	100M	250M♦	24m	20u†	8.0 †	10	1.0m	12p	4.7	50u	4.0p	07	D039	CN1
4	CA3053Δ	24 ♦	150m	35	10M	250 ♦			6.0 †	10						5C	B021	TO99
5	LS3053	24 ♦	150m	35	10M	250M♦			6.0 †	10						5C	B021	TO99
6	LS171	24	216m	28 †	200M	250M♦	17m	100u†	6.0 †	10	2.5m			40u		5C	D001	CN17c
7	LS271	24	216m	28 †	200M	250M♦	17m	100u†	6.0 †	10	2.5m			40u		2A	D001	CN17c
8	CA3028BΔ	24 ♦	220m	35	10M	250 ♦			9.0 †	10						5C	B021	TO99
9	CA3028B☑§	24 ♦	220m	35	10M	5.0M†	100m†	300n†	9.0	5.0	600u†	22p†		0.0	1.4p†	5C	B021	TO99
10	CA3028BS§	24 ♦	220m	35	10M	5.0M†	100m†	300n†	9.0	5.0	600u†	22p†		0.0	1.4p†	5C	B021	
11	LS3028B	24 ♦	220m	35	10M	250M♦			9.0 †	10						5C	B021	TO99
12#	MT171	24	230m	24 †	470k		17m	100u†			400u			10u†		5C	D001	CN10e
13#	MT271	24	230m	24 †	470k		17m	100u†			400u			10u†		0A	D001	CN10e
14#	MT371	24	230m	24 †	470k		27m†	100u†			500u			10u†		0A	D001	CN10e
15	LM371Δ	24	252m	28 †	200M	250 ♦	17m	100u†	6.0 †	10	2.5m			40u		07	D001	CN17c
16	LS371	24	252m	28 †	200M	250M♦	17m	100u†	6.0 †	10	2.5m			40u		07	B021	CN17c
17	CA3028AΔ	24 ♦	260m	35	10M	250 ♦			9.0 †	10						5C	B021	TO99
18	CA3028A☑§	24 ♦	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†		0.0	1.4p†	5C	B021	TO99
19	CA3028AH§	24 ♦	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†		0.0	1.4p†	5C	B021	FC16f
20	CA3028AL§	24 ♦	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†		0.0	1.4p†	5C	B021	FC18
21	CA3028AS§	24 ♦	260m	35	10M	5.0M†	100m†	300n†	9.0		600u†	22p†		0.0	1.4p†	5C	B021	
22	LS3028A	24 ♦	260m	35	10M	250M♦			9.0 †	10						5C		TO99
23#	TAA730	27	400m			15M				10 Δ	1.6m†	5.0p	5.0	300u		16		TO100
24#	AN220	30	140m				12m	5.1u								27	D017	TO116
25	CA3044§	30 §	190m			45M	15m†	5.1m†								5C	D017	CN10d
26	CA3044V1§	30 §	190m			45M	15m†	5.1m†								5C	D017	CN19
27	CA3043§	30 §	260m	80 †*							140u†	5.0p†				5C	C026	CN18
28	CA3043H§	30 §	260m	80 †*							140u†	5.0p†				5C	C026	FC16j
29	CA3042§	140 §	270m	67 †*	4.5M					6.0 Δ	90u†	5.0p†	700m†	10u†	4.0p†	08	C025	MP50
30	CA3041§	140 §	275m	67 †*	4.5M					6.0 Δ	90u†	5.0p†	700m†	10u†	4.0p†	08	C024	MP50
31#	TAA591§	140 §	280m	67 †*	5.5M					6.0 Δ	90n†	50p†	700m†	10n†	4.0p†	08		MP50
32#	TAA691§	140 §	280m	67 †*	5.5M					6.0 Δ	90n†	50p†	700m†	10n†	4.0p†	08		MP50

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	[5] TYPE No.	PWR SUP@25°C RATED SPECS [1] TOT VOLT (ΔV)	[2] MAX IDLE P (W)	TRANSFER CHARACTERISTICS @25°C 3dB BW [3] MIN. UPPER (Hz)	MAX. LOWER (Hz)	[4] MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	INPUT CHAR. @25°C MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	OUTPUT CHAR. @25°C MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	TRANSIENT CHAR. @25°C MAX TIME RISE (s)	DELAY (s)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	CA3020H§	6.0 §		8.0Mt		75 Δt	70 §t	10	1.0kt		200 †		130			5C	C022	FC16d
2#	TAA350A	6.0		12M		65					75 †	10	10k			2C	E031a	TO74
3	CA3021	6.0 §	8.0m	800k	0.0	50 §	8.5 †		4.0kt	6.0	300 †	1.7 †	♦			5C	E013	CN18
4	CA3022	6.0 §	24m	3.0M	0.0	50 §	8.5 †		1.3kt	6.0	120 †	2.0 †	♦			5C	E013	CN18
5	CA3023	6.0 §	48m	10M	0.0	50 §	8.5 †		300 †	6.0	100 †	1.4 †	♦			5C	E013	CN18
6	CA3023H	6.0 §	48m	10M	0.0	50 §	8.5 †		300 †	6.0	100 †	1.4 †				5C	E013	FC16e
7	SE501G%	6.0 §	53m	14M		23	7.0	5.0	540	4.0	50	2.0	600	16n	15n	5C	E014	TO91
8	SE501K%	6.0 §	53m	14M		23	7.0	5.0	540	4.0	50	2.0	600	16n	15n	5C	E014	TO100
9	NE501A	6.0 §	60m	11M		22	8.0	5.0	1.2k	4.0	65	2.8	600	20n	15n	07	E014	TO116
10	NE501G%	6.0 §	60m	11M		22	8.0	5.0	1.2k	4.0	65	2.8	600	20n	15n	07	E014	TO91
11	NE501K%	6.0 §	60m	11M		22	8.0	5.0	1.2k	4.0	65	2.8	600	20n	15n	07	E014	TO100
12	SE501A	6.0 §	60m	11M		22	8.0	5.0	1.2k	4.0	65	2.8	600	20n	15n	07	E014	TO116
13#	SL521B	6.0 §	108m	140M	7.0M	11	5.2					1.2 †				5H	E030	CN11b
14#	SL571B	6.0 §	108m	140M	7.0M	11	5.2					1.2 †				5H	E030	FP2h
15#	SL521A	6.0 §	108m	150M	7.0M	11	5.2					1.2 †				5H	E030	CN11b
16#	SL571A	6.0 §	108m	150M	7.0M	11	5.2					1.2 †				5H	E030	FP2h
17	CTS861	6.0 §	110m	140M	7.0m	11	4.0 †									5C	E032	TO77
18#	SL521C	6.0 §	114m	130M	7.0M	11	5.2					1.2 †				5H	E030	CN11b
19#	SL571C	6.0 §	114m	130M	7.0M	11	5.2					1.2 †				5H	E030	FP2h
20	MC1553G	6.0 §	120m	35Mt		52	5.0	.20	10kt									
21	MC1552G	6.0 §	120m	40Mt		34	5.0	.20	10kt									
22	CA3014	7.5 §	150m	20Mt	100kt	65	8.7 †	1.8 †	3.0kt	6.0	31kt					5C	E021	CN17f
23	CA3012	7.5 §	167m	20Mt	100kt	65	8.7 †		3.0kt		31kt					5C	E053	CN17f
24	CA3012H	7.5 §	167m	20M	100kt	65	8.7 †		3.0kt							5C	E053	FC16a
25	LM3011H	7.5 §♦	187m			55	8.7 †		3.0kt	300ut	31kt					5C	E053	CN10e
26	CA3011	7.5 §	187m	20Mt	100kt	65	8.7 †		3.0kt		31kt					5C	E053	CN17f
27	CA3013	7.5 §	187m	20Mt	100kt	65	8.7 †	1.8 †	3.0kt	6.0	31kt					5C	E021	CN17f
28	CA3020§	9.0	49mt	8.0Mt		75 †Δ	70 §t	10	1.0kt		130 †					5C	C022	CN10n
29	CA3020A§	9.0	49mt	8.0Mt		75 †Δ	66 §t	10	1.0kt		200 †					5C	C022	CN10n
30	CA3035V1*	9.0 §	67m	500kt	1.0k	40	7.0		50kt	1.0	270 †	2.0 †	10k			5C	E016	CN19
31	SG1402N§	10 §	85m	40M		23			1.2ktΔ		200	3.0	100k			07	E039	MP39a
32	SG1402T§	10 §	85m	40M		23			1.2ktΔ		200	3.0	100k			5C	E039	TO100
33	SG2402N§	10 §	85m	40M		23			1.2ktΔ		200	3.0	100k			07	E039	MP39a
34	SG2402T§	10 §	85m	40M		23			1.2ktΔ		200	3.0	100k			5C	E039	TO100
35	SG3402N§	10 §	85m	50Mt		20			1.2ktΔ		300	3.0	100k			07	E039	MP39a
36	SG3402T§	10 §	85m	50Mt		20			1.2ktΔ		300	3.0	100k			5C	E039	TO100
37♦	MC1545F§	10	110m	50M		16	25 *†		4.0k	10	25 †	1.5	1.0k	10n		5C	E037	TO86
38♦	MC1545G§	10	110m	50M		16	25 *†		4.0k	10	25 †	1.5	1.0k	10n		5C	E037	CN10m
39♦	MC1545L§	10	110m	50M		16	25 *†		4.0k	10	25 †	1.5	1.0k	10n		5C	E037	TO116
40♦	MC1445F§	10	150m	75Mt		16	25 *†		3.0k	10	25 †	1.5	1.0k	6.5nt		07	E037	TO86
41♦	MC1445G§	10	150m	75Mt		16	25 *†		3.0k	10	25 †	1.5	1.0k	6.5nt		07	E037	CN10m
42♦	MC1445L§	10	150m	75Mt		16	25 *†		3.0k	10	25 †	1.5	1.0k	6.5nt		07	E037	TO116
43#	SL1030C	10 §	450m	150MΔ	10kΔ	37	4.5		1.0k		50 †	1.0 †	100	3.0n		37	E054	MP347
44	HEP591-RT	10 ♦	600m	4.5M		60		2.0		6.0	60					5C	E021	CN10c
45#	M5134P§	11	180m													28	E034	MP14j
46	CA3002	12	55mt	11Mt		24 †	8.0		100kt	7.0	70 †	5.5				5C	D012	CN10d
47	CA3002H	12	55mt	11Mt		24 †	8.0		100kt	7.0	70 †	5.5				5C	D012	FC16
48	SG1401N	12 §	110m	200Mt		20 §*	8.0		2.5kt		25 †	4.0 †		5.0 †		07	E005	MP39a
49	SG1401T	12 §	110m	200Mt		20 §*	8.0		2.5kt		25 †	4.0 †		5.0 †		5C	E005	TO100
50	SG2401N	12 §	110m	200Mt		20 §*	8.0		2.5kt		25 †	4.0 †		5.0 †		07	E005	MP39a
51	SG2401T	12 §	110m	200Mt		20 §*	8.0		2.5kt		25 †	4.0 †		5.0 †		5C	E005	TO100
52	SG3401N	12 §	110m	200Mt		20 §*	6.0 †		2.5kt		50 †	3.0 †		5.0 †		07	E005	MP39a
53	SG3401T	12 §	110m	200Mt		20 §*	6.0 †		2.5kt		50 †	3.0 †		5.0 †		5C	E005	TO100
54	CA3001§	12	120m	16M	0.0	10 §	8.0		50k	5.0	70	5.0 †				5C	B023	CN18
55	CA3001H§	12	120m	16M	0.0	10 §	8.0		50k	5.0	70	5.0 †				5C	B023	FC16
56	AH56K	12 §	120m	300M	5.0M	9.5	5.0		50		50							MP301
57#	ZLA15	12 §	150m	25M		29 %			25k		400					5A	E012	CN23
58#	ZLA10	12 §	150m	120M		20 %			10k		400					5A	E012	CN23
59▼	SN7511FA§	12	180mt	3.0Mt		47			5.0ktΔ	2.0	800 †	1.5	5.0k			07	B029	FP2t
60	SN7511L§	12	180mt	3.0Mt		47			5.0ktΔ	16	800 †	1.5				07	B029	Δ006AD
61	SN7511N§	12	180mt	3.0Mt		47			5.0ktΔ	16	800 †	1.5				07	B029a	Δ001AA
62▼	SN5511FA§	12	180mt	3.0Mt		52			5.0ktΔ	4.5	800 †	2.5	5.0k			5C	B029	FP2t
63	SN5511L§	12	180mt	3.0Mt		52			5.0ktΔ	16	800 †	2.5				5C	B029	Δ006AD
64	SN5511N§	12	180mt	3.0Mt		52			5.0ktΔ	16	800 †	2.5				5C	B029a	Δ001AA
65	CA3040	12	186m	40M	55 †	34 §	11		150kt		125 †	1.4				5C	E035	CN18
66▼	SN7510FA	12	220m	40Mt	0.0	36		2.0	6.0ktΔ	16	35 †			15n		07	E019	FP2t
67	SN7510L	12	220m	40Mt		36		2.0	6.0ktΔ	16	35 †			15n		07	E019	CN1
68▼	SN7510P	12	220m	40Mt	0.0	36		2.0	6.0ktΔ	16	35 †			15n		07	E019	MP267
69▼	SN5510FA	12	220m	40Mt	0.0	38		5.0	6.0ktΔ	16	35 †			12n		5A	E019	FP2t
70▼	SN5510JP	12	220m	40Mt	0.0	38		5.0	6.0ktΔ	16	35 †			12n		5A	E019	MP383
71	SN5510L	12	220m	40Mt		38		5.0	6.0ktΔ	16	35 †			12n		5A	E019	CN1
72♦	MC1410G	12	220m	40Mt	0.0	60	5.0 †*	2.0 †	6.0kt	2.0 †	35 †Δ	4.5 †	5.0k	15n	9.0nt	07	E008a	CN1k
73♦	MC1510G	12	220m	40Mt	0.0	75	5.0 †*	5.0	6.0kt	2.0 †	35 †Δ	4.5 †	5.0k	12n	9.0nt	5C	E008a	CN1k
74#	TAA721	12	230m	40M		37		2.0 †	6.0kt		35 †	4.5 †	5.0k	10n	10n	07	E019	TO76
75#	TAA722	12	230m	40M		37		1.5 †	6.0kt		35 †	4.5 †	5.0k	9.0n	9.0n	5C	E019	TO76
76	AH56L	12 §	240m	300M	5.0M	10	5.0		50		50							MP301
77	AH59	12 §	240m	300M	5.0M	11 †	7.0 †		50 †		50 †							CN2n
78	SN7512L	12	270m	80Mt	0.0	46 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	07	E050	TO100
79	SN7512N	12	270m	80Mt	0.0	46 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	07	E050	MP39h
80	SN7514L	12	270m	80Mt	0.0	46 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	07	E050a	TO99
81	SN7514P	12	270m	80Mt	0.0	46 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	07	E050a	MP267
82▼	SN5514JP	12	270m	80Mt		47			6.0kt	16	35 †	3.0	5.0k	5.0n		5C	E050	MP383
83	SN5512L	12	270m	80Mt	0.0	48 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	5C	E050	TO100
84	SN5512N	12	270m	80Mt	0.0	48 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	5C	E050	MP39h
85	SN5514L	12	270m	80Mt	0.0	48 §	3.0u*		6.0kt	2.0	35 †	3.0	5.0k	5.0nt	6.0nt	5C	E050a	TO99
86▼	AM733FM	12	288m			49 §*	40u*	2.0	20k	3.0					60	5C	E047	FP2n
87▼	AM733DC	12	288m	40M	0.0	46 §*	12ut*		4.0kt	2.0	20	3.0		12n	10n	07	E047	MP151a
88▼	AM733HC	12	288m	40M	0.0	46 §*	12ut*		4.0kt	2.0	20	3.0		12n	10n	07	E047	TO100
89	LM733CD	12	288m	40Mt		48	12 *†		10k	2.0	20 †	3.0	2.0k			07	E040	MP148
90	LM733CH	12	288m	40Mt		48	12 *†		10k	2.0	20 †	3.0	2.0k			07	E040	CN8
91	LM733CN	12	288m	40Mt		48	12 *†		10k	2.0	20 †	3.0	2.0k			07	E040	MP39n
92♦	MC1733CG	12	288m	40Mt		48 *	12u*		4.0kt	2.0 *	20 †	3.0	1.0k	10nt	7.5nt	07	E040	TO100
93♦	MC1733CL	12	288m	40Mt		48 *	12u*		4.0kt	2.0 *	20 †	3.0	1.0k	10nt	7.5nt	07	E040	MP139a
94	N5733A	12	288m	40Mt		48 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5mt	07	E040	MP153
95	N5733F	12	288m	40Mt		48 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5mt	07	E040	MP152
96	N5733K	12	288m	40Mt		48 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5nt	07	E040	CN37
97	NE592A	12	288m	40M		48	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n	07		MP153
98	NE592G	12	288m	40M		48	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n	07		TO91
99	NE592K	12	288m	40M		48	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n	07		CN37
100▼	AM733DM	12	288m	40M	0.0	49 §*	12ut*		4.0kt	2.0	20	3.0		10n	10n	5C	E047	MP151a
101▼	AM733HM	12	288m	40M	0.0	49 §*	12ut*		4.0kt	2.0	20	3.0		10n	10n	5C	E047	TO100
102♦	MC1733G	12	288m	40Mt		49 *	12u*		4.0kt	2.0 *	20 †	3.0	1.0k	10nt	7.5nt	5C	E040	TO100
103♦	MC1733L	12	288m	40Mt		49 *	12u*		4.0kt	2.0 *	20 †	3.0	1.0k	10nt	7.5nt	5C	E040	MP139a
104	LM733D	12	288m	40Mt		50	12 *†		20k	2.0	20 †	3.0	2.0k			5C	E040	MP148
105	LM733H	12	288m	40Mt		50	12 *†		20k	2.0	20 †	3.0	2.0k			5C	E040	CN8
106	S5733A	12	288m	40Mt		50 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5nt	5C	E040	MP153
107	S5733F	12	288m	40Mt		50 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5nt	5C	E040	MP152
108	S5733K	12	288m	40Mt		50 §*	12 †*		4.0kt	2.0 *	20 †	3.0	2.0k	10nt	7.5nt	5C	E040	CN37
109	SE592G	12	288m	40M		50	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n	5C		TO91
110	SE592K	12	288m	40M		50	12		4.0k	2.0	20	3.0	2.0k	10n	7.5n	5C		CN37

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

7. WIDEBAND AMPLIFIERS

IN ORDER OF (1) TOT VOLT (2) MAX IDLE POWER (3)MIN UPPER 3dB BW (4)MIN VOLT GAIN (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	TRANSFER CHARACTERISTICS @25°C 3dB BW 3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	INPUT CHAR. @25°C MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	OUTPUT CHAR. @25°C MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	TRANSIENT CHAR. @25°C MAX TIME RISE (s)	DELAY (s)	T C E O M D P E - +	CKT.	DRAWINGS OUT-LINE Δ=MO
1	SG733CN	12	288m	50M†		46 †	12u†*		4.0k†Δ	2.0 *	20	3.0	400	5.0n†	7.5n†	07	E040	MP39a
2	SG733CT	12	288m	50M†		46 †	12u†*		4.0k†Δ	2.0 *	20	3.0	400	5.0n†	7.5n†	5C	E040	TO100
3	SG733T	12	288m	50M†		46 †	12u†*		4.0k†Δ	2.0 *	20	3.0	400	5.0n†	7.5n†	5C	E040	TO100
4▼	SN72733FA§	12	288m	50M†		47			4.0k†	2.0	20 †	3.0	2.0k	10n†		07	B046	FP2t
5▼	SN72733J§	12	288m	50M†		47			4.0k†	2.0	20 †	3.0	2.0k	10n†		07	B046	TO116
6	SN72733L§	12	288m	50M†		48			4.0k†	10	20 †	3.0	2.0k	10n†	7.5n†	07	B046	TO100
7	SN72733N§	12	288m	50M†		48			4.0k†	10	20 †	3.0	2.0k	10n†	7.5n†	07	B046	MP39h
8▼	SN52733FA§	12	288m	50M†		49			4.0k†	2.0	20 †	3.0	2.0k	10n†		5C	B046	FP2t
9▼	SN52733J§	12	288m	50M†		49			4.0k†	2.0	20 †	3.0	2.0k	10n†		5C	B046	TO116
10	SN52733L§	12	288m	50M†		50			4.0k†	10	20 †	3.0	2.0k	10n†	7.5n†	5C	B046	TO100
11	N5733G	12	288m	70MØ	0.0	52 §			20k	12	20 Δ	3.0		10n	10n	07		TO116
12	S5733G	12	288m	70MØ	0.0	52 §			20k	12	20 Δ	3.0		10n	10n	5C		TO91
13	RC733D	12	288m	120M	0.0	10 §*	12 *		4.0k†	2.0 *	20	3.0	1.0k	10n†	7.5n†	07	E040	MP40
14	RC733DP	12	288m	120M	0.0	10 §*	12 *		4.0k†	2.0 *	20	3.0	1.0k	10n†	7.5n†	07	E040	MP40
15	RC733Q	12	288m	120M	0.0	10 §*	12 *		4.0k†	2.0 *	20	3.0	1.0k	10n†	7.5n†	07	E040	FP2k
16	RM733D	12	288m	120M	0.0	10 §*	12 *		4.0k†	2.0 *	20	3.0	1.0k	10n†	7.5n†	5C	E040	MP40
17	RM733Q	12	288m	120M	0.0	10 §*	12 *		4.0k†	2.0 *	20	3.0	1.0k	10n†	7.5n†	5C	E040	FP2k
18	uA733DC	12	288m	120M†		50	12 *†		4.0k†	2.0	20 †	3.0	50	10n	7.5n†	07	E040	TO116
19	uA733DM	12	288m	120M†		50	12 *†		4.0k†	2.0	20 †	3.0	50	10n	7.5n†	5C	E040	TO116
20	uA733FM	12	288m	120M†		50	12 *†		4.0k†	2.0	20 †	3.0	50	10n	7.5n†	5C	E040	TO91
21	uA733HC	12	288m	120M†		50	12 *†		4.0k†	2.0	20 †	3.0	50	10n	7.5n†	07	E040	TO100
22	uA733HM	12	288m	120M†		50	12 *†		4.0k†	2.0	20 †	3.0	50	10n	7.5n†	5C	E040	TO100
23#	SAA700B	12	400m	5.0M†					2.7k†	5.0		4.2 †				07	E052	MP320
24	AH1020	12 §	480m	500M	100M	28 †	5.0		50		50							MP302
25	RC733T	12	500m	120M†	0.0	18 §*	12 †*		10k	2.0 *	20 †	3.0	400	12n	10n	07	E040	TO100
26	RM733T	12	500m	120M†	0.0	19 §*	12 †*		20k	2.0 *	20 †	3.0	400	10n	10n	5C	E040	TO100
27#	TBA440	13 §	234m	9.0M†		50 §			1.9k†	150u†	25k	4.0 †				27	E051	MP252d
28#	SN2600	14 §	120m	4.5M†		23 *										5C	E028	TO84
29#	SN2610	14 §	120m	6.0M†		14 *	4.0									5C	E029	TO84
30	AH52	16 §	400m	500M	10M	14	5.0		50		50					5A		CN2n
31	AH53	16 §	400m	600M	100M	13 †	5.5 †		50 †		50 †							CN2n
32	ATF416	18	270m	10M	0.0	49	4.0		20k	5.0	800	10 †	1.0k			28	A130	MP174
33	HEPC6010-RT	18 §♦	500m			60	1.0mt Δ									17	E048	MP130a
34#	712-9-5B	21	125m			63			10k	4.5	600	10		30n		07		TO99
35#	712-1-5B	21	125m			70			10k	4.5	500	10		30n		5C		TO99
36	HX610	24	1.4	100M†		52			300k†	6.0		5.0	100			68	E043	CN17e
37	AH60	24 §	3.6	300M	5.0M	9.0 †	8.0 †		50 †		50 †							CN22c
38▼	HA2A2530	30	180m	4.0MØ	5.0M†	106			2.0M†			20	2.0k	40n		5C	E055	TO99
39▼	HA2A2535	30	180m	4.0MØ	5.0M†	106			2.0M†			20	2.0k	40n		07	E055	TO99
40	IH5101IIE	30	450m	10M	100	66	3.0 Δ	1.0	1.0	1.0	10	1.0	75	30n	20n	28	E049	MP261
41	IH5101MIE	30	450m	10M	100	66	3.0 Δ	1.0	1.0	1.0	10	1.0	75	30n	20n	5C	E049	MP261
42	VA21	30	750m	8.0MØ	0.0	92	10 *		250k			20	1.0k	20n	13n	07		MP2r
43	CD23	30	750m	10MØ		92	5.0 *		250kΔ			20	100			05		MP83a
44	VA23	30	750m	10MØ		106	5.0 *		250kΔ			20	200			06		MP83a
45	WB23	30	750m	10MØ		106	5.0 *		250kΔ			20	200			06		MP83a
46	VA22	30	1.0	4.0MØ	0.0	92	10 *		10G†			20	1.0k	40n	33n	07		MP2
47	VA24	30	1.3	7.0MØ		86	5.0 *		100G			20	330			05		MP83
48	821Δ	40	1.2	30M	0.0	500m		1.0	4.0k	36	15	32	100	60n	20n	5C	E006	MP34d
49	856	40	1.4	30M	0.0	0.0		1.0	4.0k	40	10	32		60n	20n	5C		
50	822Δ	40	1.4	30M	0.0	500m		1.0	4.0k	36	10	32	50	60n	20n	5C	E006	MP34d
51	824	60	168m	4.0M	0.0	9.0		1.0	9.0k	40	100	36	140	3.0u		5C		MP156
52	823	60	600m	4.0M	0.0	0.0		1.0	1.0k	60	10	52		100n		5C	E037	MP34d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	[4] TYPE No.	[1] NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	[2] MAX INPUT VOLT (V)	MIN OUT/IN DIFF. (ΔV)	[3] MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MAX TRANSIENT RECOVERY MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C M P	D E	CKT.	OUTLINE Δ=MO
1	LM100F		2.0	30	40	3.0	500m§	25m		1.0m%		200mΔ		500m		3.0u	3.0u	5F		F001	FP2
2	LM100H		2.0	30	40	3.0	500m§	25m		1.0m%		200mΔ		500m		3.0u	3.0u	5F		F001	CN1a
3	CA3055		1.8	34	40		630m§	115m	300m	2.5m†Δ								5C		F060	Δ002AL
4	MC1466L§	1.0 §			30		750m	1.0m			3.0m	30m	1.0m	200m				07		F043	TO116
5	MC1566L§	1.0 §			35		750m	1.0m			1.0m	10m	1.0m	100m				5C		F043	TO116
6▼	MC7902CP	2.0 ♦	4.0 %	4.0 %	35	3.5	2.0	1.5		1.0m†	18	20m§	1.5	120mΔ	65 †			0C		F116	MP331
7▼	MC7902CK	2.0 ♦	4.0 %	4.0 %	35	3.5	2.5	1.5		1.0m†	18	20m§	1.5	120mΔ	65 †			0C		F116	CN48
8	MIVR42050-410	4.0			44		120	10		50mΔ	40	100m	10	200m	60			$F			TO3
9#	TBA625AX5	5.0	5.0 %	5.0 %	20	7.5 *	750m	100u	100m†	3.0m†Δ		1.0 Δ		1.0 Δ	46			07		F078	TO39
10#	L005T1	5.0	5.0 %	5.0 %	20	7.5 *	3.2	600m	15m†	3.0m†Δ	4.5	500m		1.0	46			07		F078	TO3
11#	TBA325A	5.0	6.0 %	6.0 %	20	7.5 *	3.2	600m	15m†	3.0m†Δ		500m		1.0	46			07		F078	TO3
12	LM123K	5.0	6.0 %	6.0 %	20	7.5 *	30	3.0			7.5	25m§	3.0	100mΔ				5F		F111	TO3
13	LM223K	5.0	6.0 %	6.0 %	20	7.5 *	30	3.0			7.5	25m§	3.0	100mΔ				2F		F111	TO3
14	LM323K	5.0	6.0 %	6.0 %	20	7.5 *	30	3.0			7.5	25m§	3.0	100mΔ				0C		F111	TO3
15	JANM38510/10701AXA	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
16	JANM38510/10701AXB	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
17	JANM38510/10701AXC	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
18	JANM38510/10701BXA	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
19	JANM38510/10701BXB	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
20	JANM38510/10701BXC	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
21	JANM38510/10701CXA	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
22	JANM38510/10701CXB	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
23	JANM38510/10701CXC	5.0	6.0 %	6.0 %	25	9.0 *	330m	500m		100u	18	4.0m§	495m	20mΔ	60			5C		F077	CN40a
24▼	SN72309LA	5.0	4.8	5.2	25		480m	500m			18	50m§	495m	50mΔ	85 †			0C		F077	CN38a
25▼	SN52109LA	5.0	4.7	5.3	25		600m	500m			18	50m§	495m	50mΔ	85 †			5F		F077	CN38a
26	JANM38510/10701AYA	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
27	JANM38510/10701AYB	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
28	JANM38510/10701AYC	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
29	JANM38510/10701BYA	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
30	JANM38510/10701BYB	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
31	JANM38510/10701BYC	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
32	JANM38510/10701CYA	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
33	JANM38510/10701CYB	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
34	JANM38510/10701CYC	5.0	6.0 %	6.0 %	25	9.0 *	1.4	1.5		100u	18	4.0m§	1.0	50mΔ	60			5C		F077	TO3
35	LM120H05	5.0 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			5C		F108	TO5
36	LM220H05	5.0 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			28		F108	TO5
37	LM320H05	5.0 ♦	4.0 %	4.0 %	25	1.0	2.0	500m	30m†	200u	18	50m§	495m	50mΔ	67			07		F108	TO5
38	SG120-05T	5.0 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			5C		F108	TO5
39	SG220-05T	5.0 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			28		F108	TO5
40	SG320-05T	5.0 ♦	4.0 %	4.0 %	25	1.0	2.0	500m	30m†	200u	18	50m§	495m	50mΔ	67			07		F108	TO5
41	LM120K05	5.0 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			5C		F108	TO3
42	LM220K05	5.0 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			28		F108	TO3
43	LM320K05	5.0 ♦	4.0 %	4.0 %	25	1.0	20	1.5	30m†	200u	18	50m§	1.4m	50mΔ	67			07		F108	TO3
44	SG120-05K	5.0 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			5C		F108	TO3
45	SG220-05K	5.0 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			28		F108	TO3
46	SG320-05K	5.0 ♦	4.0 %	4.0 %	25	1.0	20	1.5	30m†	200u	18	50m§	1.4m	50mΔ	67			07		F108	TO3
47	uA78M05HC	5.0			30			750m			13	3.0m†§	495m	25mΔ	78 †			0H		F112	TO39
48	uA78M05HM	5.0			30			750m			13	3.0m†§	495m	25mΔ	78 †			5H		F112	TO39
49#	101N5	5.0 ♦			30	3.0	6.5	3.0		4.0m	1.0	2.0	1.5	6.0	20			08		F095	MP295
50#	101P5	5.0			30	3.0	6.5	3.0		4.0m	1.0	2.0	1.5	6.0	20			08		F095	MP295
51	S5109DA	5.0	8.0 %	8.0 %	35	1.5		1.0		20m	18	4.0m	1.0	30m				5C			TO3
52	S5109DB	5.0	8.0 %	8.0 %	35	1.5		200m		20m	18	4.0m	200m	30m				5C			TO5
53#	SFC2109M	5.0	6.0 %	6.0 %	35	1.5		200m		20m	18	50m§	200m	30mΔ				5C		F077	TO5
54#	SFC2109RM	5.0	4.7	5.3	35	1.5		1.0		20m	18	50m	1.0	30m				5C		F077	TO3
55#	SFC2209	5.0	6.0 %	6.0 %	35	1.5		500m		20m	18	50m§	200m	30mΔ				28		F077	TO5
56#	SFC2209R	5.0	6.0 %	6.0 %	35	1.5		1.5		20m	18	50m§	1.0	30mΔ				29		F077	TO3
57#	SFC2309	5.0	4.0 %	4.0 %	35	1.5		500m		20m	18	50m§	200m	30mΔ				07		F077	TO5
58#	SFC2309R	5.0	4.0 %	4.0 %	35	1.5		1.5		20m	18	50m§	1.0	30mΔ				07		F077	TO3
59#	SFC2805EC	5.0	4.0 %	4.0 %	35	2.0					18	100m§	1.5	100mΔ	70 †			07			Y220b
60#	SFC2805RC	5.0	4.0 %	4.0 %	35	2.0					18	100m§	1.5	100mΔ	70 †			07			TO3
61	SG109K	5.0			35	1.5		1.0		20m	18	1.0	1.0	50mΔ				5C		F077	TO3
62	uA7805KC	5.0	4.0 %	4.0 %	35			2.2	17m†	1.3m†§	18	100m§	1.4	100mΔ	62			0C		F091	TO3
63	uA7805KM	5.0	4.0 %	4.0 %	35			2.2	17m†	1.3m†§	18	50m§	1.4	50mΔ	68			5F		F091	TO3
64	uA7805UC	5.0	4.0 %	4.0 %	35			2.2	17m†	1.3m†§	18	100m§	1.4	100mΔ	62			0C		F091	Y220b
65	TVR109H	5.0			35		400m	500m		20m	18		0.4					5C		F077	TO5
66	TVR209H	5.0			35		400m	500m		20m	18		0.4					2C		F077	TO5
67	TVR309H	5.0			35		400m	500m		20m	18		0.4					0C		F077	TO5
68	SG109T	5.0			35	1.5	750m	200m	100k†	20m	18	1.0	495m	50mΔ				5C		F077	TO5
69	SG209T	5.0			35	1.5	750m	500m	100k†	20m	18	1.0	495m	50mΔ				28		F077	TO5
70	SG309T	5.0			35	1.5	750m	500m	100k†	20m	18	1.0	495m	50mΔ				07		F077	TO5
71	TVR109K	5.0			35		800m	1.5		20m	18		1.4					5C		F077	TO3
72	TVR209K	5.0			35		800m	1.5		20m	18		1.4					2C		F077	TO3
73	TVR309K	5.0			35		800m	1.5		20m	18		1.4					0C		F077	TO3
74	LM109H	5.0	6.0 %	6.0 %	35	1.4	2.0	200m			18	50m§	495m	50mΔ				5F		F077	TO5
75	LM209H	5.0	6.0 %	6.0 %	35	1.4	2.0	200m			18	50m§	495m	50mΔ				5F		F077	TO5
76	LM309H	5.0	4.0 %	4.0 %	35	1.5	2.0	200m			18	50m§	495m	50mΔ				0C		F077	TO5
77	MC7805CK	5.0	4.0 %	4.0 %	35	2.0	2.0	1.5	30m†	1.0m†	18	50m§	1.3m	100mΔ	70 †			0C		F091	CN48
78	MC7805CP	5.0	4.0 %	4.0 %	35	2.0	2.0	1.5	30m†	1.0m†	18	50m§	1.3m	100mΔ	70 †			0C		F091	MP331
79▼	MC7905CP	5.0 ♦	4.0 %	4.0 %	35	2.0	2.0	1.5		1.0m†	18	50m§	1.5	100mΔ	70 †			0C		F116	MP331
80▼	MC7905CK	5.0 ♦	4.0 %	4.0 %	35	2.0	2.5	1.5		1.0m†	18	50m§	1.5	100mΔ	70 †			0C		F116	CN48
81	LM109H883	5.0	6.0 %	6.0 %	35	1.5	8.0	500m		20m	18	4.0m	200m	30m				5C			TO5
82	LM109K883	5.0	6.0 %	6.0 %	35	1.5	8.0	1.5		20m	18	4.0m	1.0	30m				5C			TO3
83	N5309DA	5.0	4.0 %	4.0 %	35	1.5	8.0	1.5		20m	18	4.0m	1.0	30m				07			TO3
84	N5309DB	5.0	4.0 %	4.0 %	35	1.5	8.0	500m		20m	18	4.0m	200m	30m				07			TO5
85	SG209K	5.0			35	1.5	8.0	1.5		20m	18	1.0	1.0	50mΔ				29		F077	TO3
86	SG309K	5.0			35	1.5	8.0	1.5		20m	18	1.0	1.0	50mΔ				07		F077	TO3
87	SG7805CK	5.0	4.0 %	4.0 %	35	2.0	15	2.2	150m†	1.0m†	18	50m§	1.5	100mΔ	78 †			0C		F091	TO3
88	SG7805CT	5.0	4.0 %	4.0 %	35	2.0	15	2.2	150m†	1.0m†	18	50m§	1.5	100mΔ	78 †			0C		F091	TO5
89	SG7805K	5.0	4.0 %	4.0 %	35	2.0	15	2.2	150m†	1.0m†	18	50m§	1.5	100mΔ	78 †			5E		F091	TO3
90	SG7805T	5.0	4.0 %	4.0 %	35	2.0	15	2.2	150m†	1.0m†	18	50m§	1.5	100mΔ	78 †			5E		F091	TO5
91	LM109K	5.0	6.0 %	6.0 %	35	800m	20	1.0			18	50m§	1.0	100mΔ				5F		F077	TO3
92	LM209K	5.0	6.0 %	6.0 %	35	800m	20	1.0			18	50m§	1.0	100mΔ				5F		F077	TO3

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 ADJUSTABLE OUTPUT NOM. VOLT OUT (V)	VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT LINE VOLT |V|	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	@LOAD CHG. (s)	T C E O M D P E -+	DRAWINGS CKT.	OUTLINE Δ=MO
1	LM309K	5.0	4.0 %	4.0 %	35	2.0	20	1.0			18	50m§	1.0	100mΔ				0C	F077	TO3
2	LM340KO5	5.0	4.0 %	4.0 %	35	2.0	20	1.5	60m	1.0m	18	100m§	1.4	100mΔ	70 †			07	F110	TO3
3	LM340T05	5.0	4.0 %	4.0 %	35	2.0	20	1.5	60m	1.0m	18	100m§	1.4	100mΔ	70 †			07	F110	Y220
4	MLM109G	5.0	6.0 %	6.0 %	35		20				18	1.0	1.5	100mΔ				SE	F077	TO39
5	MLM109K	5.0	6.0 %	6.0 %	35		20	1.0			18	1.0	1.5	100mΔ				SE	F077	TO3
6	MLM209G	5.0	6.0 %	6.0 %	35		20				18	1.0	1.5	100mΔ				SE	F077	TO39
7	MLM209K	5.0	6.0 %	6.0 %	35		20	1.0			18	1.0	1.5	100mΔ				SE	F077	TO3
8	MLM309G	5.0	4.0 %	4.0 %	35		20				18	1.0	1.5	100mΔ				0C	F077	TO39
9	MLM309K	5.0	4.0 %	4.0 %	35		20	1.0			18	1.0	1.5	100mΔ				0C	F077	TO3
10▼#	SI3551M	5.0			35	4.0	25	1.2	20m	6.0m	10	600m	1.0	1.0	54			27	F113	TO3
11♦#	SI3552M	5.0			35	4.0	40	2.0	20m	6.0m	10	600m	2.0	1.0	54			27	F113	TO3
12♦#	SI3560M	5.0	5.0	15	35	4.0	40	1.5	20m	6.0m	10	600m	1.5	1.0	54			27	F106	TO3
13▼#	SI3050G	5.0			35	4.0	50	2.0	20m	1.0m	10	600m	2.0	1.0	54			28	F114	MP375
14♦#	SI3554M	5.0			35	4.0	65	3.0	20m	6.0m	10	600m	3.0	1.0	54			27	F113	TO3
15	DE5S500	5.0			40			500m			1.0	10m	500m	10m				27		MP276a
16	NC520	5.0	1.0	7.0	40	1.5	500m	50m	50m†	20mΔ		40mΔ	100m	250m	66 †			5C	F023	CN17a
17	809V5	5.0			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
18	855V5	5.0 ♦			40	4.0	1.6	500m	10k	1.8m	900m	100m	500m	100m	50	5.0u	5.0u	5C	F014	MP34b
19	859V5	5.0 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
20	805V5	5.0			40	4.0	1.8	500m	10k	1.8m	9.0	100m	500m	100m	50	5.0u	5.0u	5C	F010	MP34
21	RE5S500	5.0			40	1.0	3.0	500m	100m	1.0m	1.0	10m	500m	10m	80 †			27		MP276
22	VR03-05AB	5.0	4.5	5.5	40	3.5	8.0	5.0		15mΔ		10m	5.0	200m	60			5C	F101	MP313
23	VR03-05AA	5.0			40	3.5	70	5.0		15mΔ	95m	10m	5.0	200m	60			5C	F101	MP313
24	MIVR42050-055	5.0			44		120	5.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
25	MIVR42050-510	5.0			44		120	10		50mΔ	40	100m	10	200m	60			$F		TO3
26	MIVR42051-055	5.0 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
27	838V5	5.0			45	3.5	1.6	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†	5C	F072a	MP156
28	828V5	5.0			45	3.5	1.8	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†	5C	F072	MP156
29	LM120H5.2	5.2 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			5C	F108	TO5
30	LM220H5.2	5.2 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			28	F108	TO5
31	LM320H5.2	5.2 ♦	3.8 %	3.8 %	25	1.0	2.0	500m	30m†	200u	18	50m§	495m	50mΔ	67			07	F108	TO5
32	SG120-5.2T	5.2 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			5C	F108	TO5
33	SG220-5.2T	5.2 ♦	2.0 %	2.0 %	25	1.0	2.0	500m	30m†	250u	18	25m§	495m	50mΔ	67			28	F108	TO5
34	SG320-5.2T	5.2 ♦	3.8 %	3.8 %	25	1.0	2.0	500m	30m†	200u	18	50m§	495m	50mΔ	67			07	F108	TO5
35	LM120K5.2	5.2 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			5C	F108	TO3
36	LM220K5.2	5.2 ♦	2.0 %	2.0 %	25	1.0	20	1.5	30m†	250u	18	25m§	1.4m	50mΔ	67			28	F108	TO3
37	LM320K5.2	5.2 ♦	3.8 %	3.8 %	25	1.0	20	1.5	30m†	200u	18	50m§	1.4m	50mΔ	67			07	F108	TO3
38	SG120-5.2K	5.2 ♦	2.0 %	2.0 %	25	1.0	20	1.5m	30m†	250u	18	25m§	1.4m	50mΔ	67			5C	F108	TO3
39	SG220-5.2K	5.2 ♦	2.0 %	2.0 %	25	1.0	20	1.5m	30m†	250u	18	25m§	1.4m	50mΔ	67			28	F108	TO3
40	SG320-5.2K	5.2 ♦	3.8 %	3.8 %	25	1.0	20	1.5m	30m†	200u	18	50m§	1.4m	50mΔ	67			07	F108	TO3
41▼	MC7905.2CP	5.2 ♦	3.8 %	3.8 %	35	2.0	2.0	1.5		1.0m†	17	52m§	1.5	105mΔ	68 †			0C	F116	MP331
42▼	MC7905.2CK	5.2 ♦	3.8 %	3.8 %	35	2.0	2.5	1.5		1.0m†	17	52m§	1.5	105mΔ	68 †			0C	F116	CN48
43	PC521	6.0			28		500m	200m	50m†	1.0m	2.0	2.0	100m	200m	34			5C	F023	FP7
44	PC523	6.0 ♦			28		500m	200m	50m†	1.0m	2.0	2.0	100m	200m	34			5C	F024	FP7
45	uA78M06HC	6.0			30			750m			12	5.0mt§	495m	30mΔ	75 †			0H	F112	TO39
46	uA78M06HM	6.0			30			750m			12	5.0mt§	495m	30mΔ	75 †			5H	F112	TO39
47#	SFC2806EC	6.0	5.0 %	5.0 %	35	2.0					17	120m§	1.5	120mΔ	65 †			07		Y220b
48#	SFC2806RC	6.0	5.0 %	5.0 %	35	2.0					17	120m§	1.5	120mΔ	65 †			07		TO3
49	uA7806KC	6.0	4.1 %	4.1 %	35			2.2	19mt	800ut§	17	120m§	1.4	120mΔ	59			0C	F091	TO3
50	uA7806KM	6.0	4.1 %	4.1 %	35			2.2	19mt	800ut§	17	60m§	1.4	60mΔ	65			5F	F091	TO3
51	uA7806UC	6.0	4.1 %	4.1 %	35			2.2	19mt	800ut§	17	120m§	1.4	120mΔ	59			0C	F091	Y220b
52	MC7806CK	6.0	4.0 %	4.0 %	35	2.0	2.0	1.5	35mt	1.0mt	17	60m§	1.3m	120mΔ	65 †			0C	F091	CN48
53	MC7806CP	6.0	4.2 %	4.2 %	35	2.0	2.0	1.5	35mt	1.0mt	17	60m§	1.3m	120mΔ	65 †			0C	F091	MP331
54▼	MC7906CP	6.0 ♦	4.1 %	4.1 %	35	2.0	2.0	1.5		1.0mt	17	60m§	1.5	120mΔ	65 †			0C	F116	MP331
55▼	MC7906CK	6.0 ♦	4.1 %	4.1 %	35	2.0	2.5	1.5		1.0mt	17	60m§	1.5	120mΔ	65 †			0C	F116	CN48
56	SG7806CK	6.0	4.2 %	4.2 %	35	2.0	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	75 †			0C	F091	TO3
57	SG7806CT	6.0	4.2 %	4.2 %	35	2.0	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	75 †			0C	F091	TO5
58	SG7806K	6.0	4.2 %	4.2 %	35	2.0	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	75 †			5E	F091	TO3
59	SG7806T	6.0	4.2 %	4.2 %	35	2.0	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	75 †			5E	F091	TO5
60	LM340KO6	6.0	4.1 %	4.1 %	35	2.0	20	1.5	80m	1.2m	17	120m§	1.4	120mΔ	65 †			07	F110	TO3
61	LM340T06	6.0	4.1 %	4.1 %	35	2.0	20	1.5	80m	1.2m	17	120m§	1.4	120mΔ	65 †			07	F110	Y220
62	NC521	6.0	1.0	7.0	40	1.5	500m	200m	50m†	20mΔ		40mΔ	100m	250m	66 †			5C	F023	CN17a
63	NC523	6.0 ♦	1.0	7.0	40	1.5	500m	200m	50m†	20mΔ		40mΔ	100m	250m	66 †			5C	F024	CN17a
64	809V6	6.0			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
65	855V6	6.0 ♦			40	4.0	1.6	500m	10k	1.8m	900m	100m	500m	100m	50	5.0u	5.0u	5C	F014	MP34b
66	856Δ	6.0 ♦	3.0	9.0	40	4.0	1.6	500m	10k	1.8m	.90	100m	500m	10m	50	5.0u	5.0u	5C	F015	MP34c
67	859V6	6.0 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
68	805V6	6.0			40	4.0	1.8	500m	10k	1.8m	10	100m	500m	100m	50	5.0u	5.0u	5C	F010	MP34
69	806%	6.0	3.0	9.0	40	4.0	1.8	500m	10k	1.8m	9.0	.10	500m	.10	50	5.0u	5.0u	5C	F011	MP34a
70	MIVR42050-610	6.0			44		120	10		50mΔ	40	100m	10	200m	60			$F		TO3
71	MIVR42051-065	6.0 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
72	838V6	6.0			45	3.5	1.6	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†	5C	F072a	MP156
73	828V6	6.0			45	3.5	1.8	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†	5C	F072	MP156
74#	S1001	6.5 ♦	4.0	9.0	40	2.2	2.5	250m	20m	50mΔ		12mΔ			63			28	F086	MP232
75#	S1002	6.5 ♦	4.0	4.0	40	2.2	2.5	250m	20m	50mΔ		12mΔ			63			28	F086	MP232
76#	S1007	6.5 ♦	4.0	9.0	40	3.1	3.0	500m	20m	50mΔ		16mΔ			63			28	F086	MP233
77#	S1008	6.5 ♦	4.0	9.0	40	3.1	3.0	500m	20m	50mΔ		16mΔ			63			28	F086	MP233
78#	S1013	7.0 ♦	4.0	10	40	3.0	10	2.0	5.0m	50mΔ		16mΔ			63			28	F086	MP234
79#	S1014	7.0 ♦	4.0	10	40	3.0	10	2.0	5.0m	50mΔ		16mΔ			63			28	F086	MP234
80#	S1021	7.0 ♦	4.0	10	40	2.7	25	5.0	5.0m	30mΔ		16mΔ			63			2B	F086	MP235
81#	S1022	7.0 ♦	4.0	10	40	2.7	25	5.0	5.0m	30mΔ		16mΔ			63			2B	F086	MP235
82	MIVR42050-710	7.0			44		120	10		50mΔ	40	100m	10	200m	60			$F		TO3
83	MIVR42051-075	7.0 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
84	uA78M08HC	8.0			30			750m			14	6.0mt§	495m	40mΔ	72 †			0H	F112	TO39
85	uA78M08HM	8.0			30			750m			14	6.0mt§	495m	40mΔ	72 †			5H	F112	TO39
86#	SFC2808EC	8.0	3.7 %	3.7 %	35	2.0					11	160m§	1.5	160mΔ	62 †			07		Y220b
87#	SFC2808RC	8.0	3.7 %	3.7 %	35	2.0					11	160m§	1.5	160mΔ	62 †			07		TO3
88	uA7808KC	8.0	3.7 %	3.7 %	35			2.2	16mt	800ut§	14	160m§	1.4	160mΔ	56			0C	F091	TO3
89	uA7808KM	8.0	3.7 %	3.7 %	35			2.2	16mt	800ut§	14	80m§	1.4	80mΔ	62			5F	F091	TO3
90	uA7808UC	8.0	3.7 %	3.7 %	35			2.2	16mt	800ut§	14	160m§	1.4	160mΔ	56			0C	F091	Y220b
91	MC7808CK	8.0	4.0 %	4.0 %	35	2.0	2.0	1.5	40mt	1.0mt	15	80m§	1.3m	160mΔ	62 †			0C	F091	CN48
92	MC7808CP	8.0	4.0 %	4.0 %	35	2.0	2.0	1.5	40mt	1.0mt	15	80m§	1.3m	160mΔ	62 †			0C	F091	MP331
93▼	MC7908CP	8.0 ♦	3.7 %	3.7 %	35	2.0	2.0	1.5		1.0mt	14	80m§	1.5	160mΔ	62 †			0C	F116	MP331
94▼	MC7908CK	8.0 ♦	3.7 %	3.7 %	35	2.0	2.5	1.5		1.0mt	14	80m§	1.5	160mΔ	62 †			0C	F116	CN48
95	SG7808CK	8.0	3.7 %	3.7 %	35	2.5	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	72 †			0C	F091	TO3
96	SG7808CT	8.0	3.7 %	3.7 %	35	2.5	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	72 †			0C	F091	TO5
97	SG7808K	8.0	3.7 %	3.7 %	35	2.5	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	72 †			5E	F091	TO3
98	SG7808T	8.0	3.7 %	3.7 %	35	2.5	15	2.2	150mt	1.0mt	18	50m§	1.5	100mΔ	72 †			5E	F091	TO5
99	LM340KO8	8.0	3.7 %	3.7 %	35	2.0	20	1.5	100m	2.0m	14	160m§	1.4	160mΔ	62 †			07	F110	TO3
100	LM340T08	8.0	3.7 %	3.7 %	35	2.0	20	1.5	100m	2.0m	14	160m§	1.4	160mΔ	62 †			07	F110	Y220
101	MIVR42050-810	8.0			44		120	10		50mΔ	40	100m	10	200m	60			$F		TO3
102	MIVR42051-085	8.0 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
103#	TBA435AX5	8.5	4.7 %	4.7 %	20	11 *	750m	100u	100mt	3.0mtΔ		600mΔ		1.0 Δ	46			07	F078	TO39
104#	101N9	9.0 ♦			34	3.0	6.5	3.0		7.0m	1.0	1.0	1.5	3.0	20			08	F095	MP295
105#	101P9	9.0			34	3.0	6.5	3.0		7.0m	1.0	1.0	1.5	3.0	20			08	F095	MP295
106	809V9	9.0			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
107	851V9	9.0 ♦			40	4.0	1.6	500m	10k	4.2m	1.3	50m	500m	50m	60	5.0u	5.0u	5C	F012	MP34b
108	859V9	9.0 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
109	801V9	9.0			40	4.0	1.8	500m	10k	4.2m	1.5	50m	500m	50m	60	5.0u	5.0u	5C	F005	MP34
110	MIVR42050-910	9.0			44		120	10		50mΔ	40	100m	10	200m	60			$F		TO3

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 ADJUSTABLE OUTPUT NOM. VOLT OUT (V)	VOLT. RANGE LOW (V)	VOLT. RANGE HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN IN/OUT DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C M P	E O D E -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1	MIVR42051-095	9.0 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60				$F		TO3
2	838V9	9.0			45	3.5	1.6	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†		5C	F072a	MP156
3	828V9	9.0			45	3.5	1.8	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0u†	12u†		5C	F072	MP156
4	MC1460G	9.7	2.5	17	20	3.0	3.0	250m	100m	2.0m%		30mΔ	19m	2.0mΔ	62		50n		07	F042	CN10b
5	MC1460R	9.7	2.5	17	20	3.0	3.0	600m	100m	2.0m%		30mΔ	19m	2.0mΔ	62		50n		07	F042	CN30
6	MC1560G	9.7	2.5	17	20	2.7	3.0	250m	60m	2.0m%		15mΔ	19m	1.2mΔ	62		50n		5C	F042	CN10b
7	MC1560R	9.7	2.5	17	20	2.7	3.0	600m	60m	2.0m%		15mΔ	19m	1.2mΔ	62		50n		5C	F042	CN30
8	8900	10			20	3.0	1.0	100m	100m	4.0m	7.0	300m	100m	100m	80	10u	10u		58		MP5bk
9	770-501	10 §			23	21 *		20m	10m	200u	1.1	10m	20m	5.0m			2.0u		05		MP46
10	NC109T	10	4.0	16	24	20	600m	150m	50m		5.0	10	150m	500m	40 †				07	F036	CN18b
11	8901	10 §			30	3.0	500m	40m	3.0m	2.0u	1.0	10u	40m	100u					59		MP210
12	PVS10B	10	1.0m%	1.0m%	30	5.0	560m	10m	25m	5.0u	2.8	300u	10m	2.5m					07		MP239
13	PVS10BA	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
14	PVS10BA-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
15	PVS10BC	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
16	PVS10BC-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
17	PVS10C	10	1.0m%	1.0m%	30	5.0	560m	10m	25m	5.0u	2.8	300u	10m	2.5u					07		MP239
18	PVS10CA	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
19	PVS10CA-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
20	PVS10CC	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
21	PVS10CC-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
22	PVS10G	10	1.0m%	1.0m%	30	5.0	560m	10m	25m	10u	2.8	300u	10m	2.5m					07		MP239
23	PVS10GA	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP239a
24	PVS10GA-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP239a
25	PVS10GC	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP326
26	PVS10GC-A	10	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP326
27	PVS10HA	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP239a
28	PVS10HA-A	10	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP239a
29	PVS10HB	10	5.0m%	5.0m%	30	5.0	560m	2.0m	25m	30u	2.8	300u	2.0m	2.5m					07		MP239
30	PVS10HC	10	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP326
31	PVS10HC-A	10	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP326
32	PVS10HD	10	5.0m%	5.0m%	30	5.0	560m	2.0m	100m	30u	2.8	300u	2.0m	2.0m					07		MP327
33	PVS10JA	10	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP239a
34	PVS10JA-A	10	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP239a
35	PVS10JB	10	10m%	10m%	30	5.0	560m	10m	25m	50u	2.8	300u	10m	2.5m					29		MP239
36	PVS10JC	10	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP326
37	PVS10JC-A	10	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP326
38	PVS10KA	10	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP239a
39	PVS10KA-A	10	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP239a
40	PVS10KB	10	10m%	10m%	30	5.0	560m	2.0m	25m	50u	2.8	300u	2.0m	2.5m					29		MP239
41	PVS10KC	10	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP326
42	PVS10KC-A	10	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP326
43	PVS10KD	10	10m%	10m%	30	5.0	560m	2.0m	100m	50u	2.8	300u	2.0m	2.0m					29		MP327
44	PVS10MA	10	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP239a
45	PVS10MA-A	10	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP239a
46	PVS10MB	10	20m%	20m%	30	5.0	560m	10m	25m	100u	2.8	300u	10m	2.5m					5B		MP239
47	PVS10MC	10	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP326
48	PVS10MC-A	10	2.0m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP326
49	PVS10NA	10	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP239a
50	PVS10NA-A	10	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP239a
51	PVS10NB	10	20m%	20m%	30	5.0	560m	2.0m	25m	100u	2.8	300u	2.0m	2.5m					5B		MP239
52	PVS10NC	10	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP326
53	PVS10NC-A	10	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP326
54	PVS10ND	10	20m%	20m%	30	5.0	560m	2.0m	100m	100u	2.8	300u	2.0m	2.0m					5B		MP327
55	PVSN10B	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	25m	5.0u	2.8	300u	10m	2.5m					07		MP239
56	PVSN10BA	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
57	PVSN10BA-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
58	PVSN10BC	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
59	PVSN10BC-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
60	PVSN10C	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	25m	5.0u	2.8	300u	10m	2.5m					07		MP239
61	PVSN10CA	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
62	PVSN10CA-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP239a
63	PVSN10CC	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
64	PVSN10CC-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	5.0u	2.8	100u	10m	500u					07		MP326
65	PVSN10G	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	25m	10u	2.8	300u	10m	2.5m					07		MP239
66	PVSN10GA	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP239a
67	PVSN10GA-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP239a
68	PVSN10GC	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP326
69	PVSN10GC-A	10 ♦	1.0m%	1.0m%	30	5.0	560m	10m	5.0m	10u	2.8	100u	10m	500u					07		MP326
70	PVSN10HA	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP239a
71	PVSN10HA-A	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP239a
72	PVSN10HB	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	25m	30u	2.8	300u	2.0m	2.5m					07		MP239
73	PVSN10HC	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP326
74	PVSN10HC-A	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	5.0m	30u	2.8	100u	2.0m	500u					07		MP326
75	PVSN10HD	10 ♦	5.0m%	5.0m%	30	5.0	560m	2.0m	100m	30u	2.8	300u	2.0m	2.0m					07		MP327
76	PVSN10JA	10 ♦	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP239a
77	PVSN10JA-A	10 ♦	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP239a
78	PVSN10JB	10 ♦	10m%	10m%	30	5.0	560m	10m	25m	50u	2.8	300u	10m	2.5m					29		MP239
79	PVSN10JC	10 ♦	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP326
80	PVSN10JC-A	10 ♦	10m%	10m%	30	5.0	560m	10m	5.0m	50u	2.8	100u	10m	500u					29		MP326
81	PVSN10KA	10 ♦	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP239a
82	PVSN10KA-A	10 ♦	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP239a
83	PVSN10KB	10 ♦	10m%	10m%	30	5.0	560m	2.0m	25m	50u	2.8	300u	2.0m	2.5m					29		MP239
84	PVSN10KC	10 ♦	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP326
85	PVSN10KC-A	10 ♦	10m%	10m%	30	5.0	560m	2.0m	5.0m	50u	2.8	100u	2.0m	500u					29		MP326
86	PVSN10KD	10 ♦	10m%	10m%	30	5.0	560m	2.0m	100m	50u	2.8	300u	2.0m	2.0m					29		MP327
87	PVSN10MA	10 ♦	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP239a
88	PVSN10MA-A	10 ♦	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP239a
89	PVSN10MB	10 ♦	20m%	20m%	30	5.0	560m	10m	25m	100u	2.8	300u	10m	2.5m					5B		MP239
90	PVSN10MC	10 ♦	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP326
91	PVSN10MC-A	10 ♦	20m%	20m%	30	5.0	560m	10m	5.0m	100u	2.8	100u	10m	500u					5B		MP326
92	PVSN10NA	10 ♦	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP239a
93	PVSN10NA-A	10 ♦	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP239a
94	PVSN10NB	10 ♦	20m%	20m%	30	5.0	560m	2.0m	25m	100u	2.8	300u	2.0m	2.5m					5B		MP239
95	PVSN10NC	10 ♦	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP326
96	PVSN10NC-A	10 ♦	20m%	20m%	30	5.0	560m	2.0m	5.0m	100u	2.8	100u	2.0m	500u					5B		MP326
97	PVSN10ND	10	20m%	20m%	30	5.0	560m	2.0m	100m	100u	2.8	300u	2.0m	2.0m					5B		MP327
98	MIVR42050-109	10			44		120	9.0		50mΔ	40	100m	9.0	200m	60				$F		TO3
99	MIVR42051-105	10 ♦			44		120	5.0		50mΔ	40	100m	5.0	200m	60				$F		TO3
100#	MT105-883	10	10 %	10 %	50		500m				31	870m	10m	50m					5E		CN1c
101♦	MFC4063A	11	3.6	19	22	3.0	1.0	200m		30mΔ	6.0	30mΔ	49m	200m					17	F102	MP223
102♦	MFC4064A	11	3.6	19	22	3.0	1.0	200m		30mΔ	6.0	60mΔ	49m	400m					17	F102	MP223
103♦	MFC6033A	11	3.6	19	22	3.0	1.0	200m		30mΔ	6.0	30mΔ	49m	200m					17	F103	MP223
104♦	MFC6034A	11	3.6	19	22	3.0	1.0	200m		30m	6.0	60mΔ	49m	400m					17	F103	MP223
105#	SFC2300	11	2.0	20	30	8.0 *	300m			300u%		100mΔ	12m	100m					07	F001	TO99
106	SG300N	11	2.0	20	30	3.0	400m§	40m		1.0 %§		200mΔ		500m		3.0u			07	F001	MP39a
107	SG300T	11	2.0	20	30	3.0	680m§	40m		1.0 %§		200mΔ		500m		3.0u			07	F001	TO99
108	LM300H	11	2.0	20	35	3.0	500m			2.0 %		200mΔ	12m	500m		5.0u†	5.0u†		07	F001	TO99
109	NC562	12	10	20	13		1.2	800m	100m		15	10	100m		50				5C	F025	CN2a
110	NC562B	12	10	20	13		1.2	800m	100m		15	10	100m		50				5C	F025	CN2a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	[4] TYPE No.	[1] NOM. OUTPUT VOLT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	[2] MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	[3] MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MAX TRANSIENT MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C E O M D P E -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1#	TBA625BX5	12	5.0 %	5.0 %	27	14 *	750m	120u	100mΩ	3.0mΩ/Δ		500mΔ		1.0 Δ	46			07	F078	TO39
2#	L036T1	12	5.0 %	5.0 %	27	14 *	3.2	500m	20mΩ	3.0mΩ/Δ	6.5	500m		1.0	46			07	F078	TO3
3#	TBA325B	12			27	14 *	3.2	500m	20mΩ	3.0mΩ/Δ		500m		1.0	46			07	F078	TO3
4	PC501	12			28		500m	200m	250m	1.0m	2.0	1.0	100m	250m	30			5C	F027a	FP10
5	PC503	12 ♦			28		500m	200m	250m	1.0m	2.0	1.0	100m	250m	30			5C	F027	FP10
6▼	829CE	12			30	30	1.0	100m		900u	2.0	25m	49m	40m	60 †			07		TO39
7#	SFC2812EC	12	4.1 %	4.1 %	35	2.0					15	240m§	1.5	250mΔ	61 †			07		Y220b
8#	SFC2812RC	12	4.1 %	4.1 %	35	2.0					15	240m§	1.5	240mΔ	61 †			07		TO3
9	uA78M12HC	12			35			750m			15	10mt§	495m	50mΔ	71 †			0H	F112	TO39
10	uA78M12HM	12			35			750m			15	10mt§	495m	50mΔ	71 †			5H	F112	TO39
11	uA7812KC	12	4.1 %	4.1 %	35			2.2	18mt	1.0mt§	15	240m§	1.4	240mΔ	55			0C	F091	TO3
12	uA7812KM	12	4.1 %	4.1 %	35			2.2	18mt	1.0mt§	15	120m§	1.4	120mΔ	61			5F	F091	TO3
13	uA7812UC	12	4.1 %	4.1 %	35			2.2	18mt	1.0mt§	15	240m§	1.4	240mΔ	55			0C	F091	Y220b
14	LM120H12	12 ♦	2.5 %	2.5 %	35	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			5C	F109	TO5
15	LM220H12	12 ♦	2.5 %	2.5 %	35	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			28	F109	TO5
16	LM320H12	12 ♦	3.3 %	3.3 %	35	1.0	2.0	200m	30mt	100u	18	20m§	195m	40mΔ	80			07	F109	TO5
17	MC7812CK	12	4.0 %	4.0 %	35	2.0	2.0	1.5	75mt	1.0mt	15	120m§	1.0m	24mΔ	61 †			0C	F091	CN48
18	MC7812CP	12	4.0 %	4.0 %	35	2.0	2.0	1.5	75mt	1.0mt	15	120m§	1.0m	24mΔ	61 †			0C	F091	MP331
19▼	MC7912CP	12 ♦	4.1 %	4.1 %	35	2.0	2.0	1.5		1.0mt	15	120m§	1.5	240mΔ	61 †			0C	F116	MP331
20	SG120-12T	12 ♦	2.5 %	2.5 %	35	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			5C	F108	TO5
21	SG220-12T	12 ♦	2.5 %	2.5 %	35	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			28	F108	TO5
22	SG320-12T	12 ♦	3.3 %	3.3 %	35	1.0	2.0	200m	30mt	100u	18	20m§	195m	25mΔ	80			07	F108	TO5
23▼	MC7912CK	12 ♦	4.1 %	4.1 %	35	2.0	2.5	1.5		1.0mt	15	120m§	1.5	240mΔ	61 †			0C	F116	CN48
24	843V12	12 §	12	20	35	3.5	3.0	300m	1.5m	1.0mΔ		5.0m	300m	5.0m	48			5C		CN2e
25	844V12*	12 §	12	20	35	3.5	3.0	300m				5.0mΔ	300m	5.0m	70			5C	F073	CN2e
26	SG7812CK	12	4.2 %	4.2 %	35	2.5	15	2.2	75mt	2.0mt	15	2.0	1.5	2.0	75 †			0C	F091	TO3
27	SG7812CT	12	4.2 %	4.2 %	35	2.5	15	2.2	75mt	2.0mt	15	2.0	1.5	2.0	75 †			0C	F091	TO5
28	SG7812K	12	4.2 %	4.2 %	35	2.5	15	2.2	75mt	2.0mt	15	2.0	1.5	2.0	75 †			5E	F091	TO3
29	SG7812T	12	4.2 %	4.2 %	35	2.5	15	2.2	75mt	2.0mt	15	2.0	1.5	2.0	75 †			5E	F091	TO5
30	LM120K12	12 ♦	2.5 %	2.5 %	35	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			5C	F109	TO3
31	LM220K12	12 ♦	2.5 %	2.5 %	35	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			28	F109	TO3
32	LM340K12	12	4.1 %	4.1 %	35	2.0	20	1.5	160m	2.5m	15	240m§	1.4	240mΔ	61 †			07	F110	TO3
33	LM340T12	12	4.1 %	4.1 %	35	2.0	20	1.5	160m	2.5m	15	240m§	1.4	240mΔ	61 †			07	F110	Y220
34	SG120-12K	12 ♦	2.5 %	2.5 %	35	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			5C	F108	TO3
35	SG220-12K	12 ♦	2.5 %	2.5 %	35	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			28	F108	TO3
36	SG320-12K	12 ♦	3.3 %	3.3 %	35	2.0	20	1.5	160m	2.5m	15	240m§	1.4	240mΔ	61			07	F108	TO3
37#	101N12	12 ♦			37	3.0	6.5	3.0		10m	1.0	1.0	1.5	3.0	20			08	F095	MP295
38#	101P12	12			37	3.0	6.5	3.0		10m	1.0	1.0	1.5	3.0	20			08	F095	MP295
39	DE12D100	12	12	12	40			100m			1.0	10m	100m	10m				27		MP275a
40	NC511	12	8.0	38	40	2.0	500m	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C	F018	CN17a
41	NC513	12 ♦	8.0	38	40	2.0	500m	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C	F019	CN17a
42	PC511	12	8.0	38	40	2.0	500m	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C	F018	FP7
43	PC513	12 ♦	8.0	38	40	2.0	500m	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C	F019	FP7
44▼	SN72305L	12	4.5	30	40	3.0	800m	12m			10	30mΔ	12m	50m				07	F003	TO99
45▼	SN72305P	12	4.5	30	40	3.0	800m	12m			10	30mΔ	12m	50m				07	F003	MP267
46▼	829BE	12			40	35	1.0	100m		500u	2.0	25m	49m	31m	60 †			5C		TO39
47	NC501	12	8.0	38	40	2.0	1.2	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C		CN34
48	NC503	12 ♦	8.0	38	40	2.0	1.2	250m	250m	10mΔ		100mΔ	100m	250m	40 †			5C		CN34
49	809V12	12			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
50	851V12	12 ♦			40	4.0	1.6	500m	10k	4.2m	1.6	50m	500m	50m	60	5.0u	5.0u	5C	F012	MP34b
51	859	12	5.0	28	40	2.0	1.6	750m	1.0	11m		.30	1.0m	3.0m	34			5C		
52	859V12	12 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
53	801V12	12			40	4.0	1.8	500m	10k	4.2m	1.8	50m	500m	50m	60	5.0u	5.0u	5C	F005	MP34
54#	S1003	12 ♦	8.0	17	40	2.2	2.5	250m	20m	30mΔ		6.2mΔ			63			28	F086	MP232
55#	S1004	12 ♦	8.0	17	40	2.2	2.5	250m	20m	30mΔ		6.2mΔ			63			28	F086	MP232
56	RE12D100	12			40	1.0	3.0	100m	100m	2.4m	1.0	10m	100m	10m	80 †			27		MP275
57#	S1009	12 ♦	8.0	16	40	3.1	3.0	500m	20m	30mΔ		6.2mΔ			63			28	F086	MP233
58#	S1010	12 ♦	8.0	16	40	3.1	3.0	500m	20m	30mΔ		6.2mΔ			63			28	F086	MP233
59#	S1015	12 ♦	8.0	16	40	3.0	10	2.0	5.0m	30mΔ		5.0mΔ			63			28	F086	MP234
60#	S1016	12 ♦	8.0	16	40	3.0	10	2.0	5.0m	30mΔ		5.0mΔ			63			28	F086	MP234
61#	S1023	12 ♦	8.0	16	40	2.7	25	5.0	5.0m	30mΔ		6.2mΔ			63			2B	F086	MP235
62#	S1024	12 ♦	8.0	16	40	2.7	25	5.0	5.0m	30mΔ		6.2mΔ			63			2B	F086	MP235
63▼#	SI3120G	12			40	4.0	50	1.5	110m	3.0m	10	2.4	1.5	1.3	52			28	F115	MP375
64	VR03-12AA	12			40	3.5	70	5.0		15mΔ	60m	10m	5.0	200m	60			5C	F101	MP313
65	VR03-12AB	12	10	13	40	3.5	70	5.0		15mΔ	60m	10m	5.0	200m	60			5C	F101	MP313
66	MIVR42050-128	12			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F		TO3
67	MIVR42051-124	12 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
68	838V12	12			45	3.5	1.6	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0ut	12ut	5C	F072a	MP156
69	828V12	12			45	3.5	1.8	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0ut	12ut	5C	F072	MP156
70♦#	SI3120E	12			55	4.0	25	1.0	200m	5.0m	10	2.2	1.0	1.7	37			2A	F082	TO3
71	LM320K12	12 ♦	3.3 %	3.3 %	-35	1.0	20	1.0	30mt	100u	18	20m§	995m	80mΔ	80			07	F109	TO3
72	MN211	14	8.0	20	30	4.0	400m	50m		5.0mΔ		1.0mΔ		2.0mΔ				5C	F089	FP7e
73	MN212	14	8.0	20	30	4.0	400m	50m		10mΔ		1.0mΔ		2.0mΔ				5C	F089	FP7e
74	CA3085	14	1.6	27	30	4.0	630m		1.1	3.5mt/Δ		150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	Δ002AL
75	CA3085H	14	1.6	27	30	4.0	630m		1.1	3.5mΔ†		150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	FC16w
76	CA3085S	14	1.6	27	30	4.0	630m		1.1	3.5mΔ†		150mΔ	99m	100mΔ	50 †	800n	3.0u	5C	F088	
77	LM305D	14	4.5	30	40	3.0	500m	12m			5.0	60mΔ	12m	50m		5.0u	5.0u	07	F003	MP322
78▼	SN72304L	14 ♦	35m	30	40	2.0	800m	20m			25	100m	20m	5.0mΔ				07	F002	TO100
79▼	SN72304N	14 ♦	35m	30	40	2.0	800m	20m			25	100m	20m	5.0mΔ				07	F002	MP39h
80	MIVR42050-148	14			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F		TO3
81	MIVR42051-144	14 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
82	VR401	15	1.0 %	1.0 %	18			3.0m	100m	10mΔ			100m	500m	60					MP14u
83	A802	15	10m%	10m%	20	2.0		5.0m	10m		8.0		3.0						F107	MP5ce
84	A803	15	10m%	10m%	20	2.0		5.0m	10m		8.0		3.0						F107	MP5ce
85	SG3501T	15 §	8.0	23	25	2.0	680m	100m			33	67m	50m	10mΔ				07	F076	TO100
86	SG3501D	15 §	8.0	23	25	2.0	1.0	100m			33	67m	50m	10mΔ				07	F076	TO116
87	SG3502D	15 §	10	23	25	2.0	1.0	100m			10	100m	50m	100m	75			07	F076	TO116
88	SG3502N	15 §	10	23	25	2.0	1.0	100m			10	100m	50m	100m	75			07	F076	TO116
89#	TBA625CX5	15	5.0 %	5.0 %	27	17 *	750m	120u	100mΩ	3.0mΩ/Δ		500mΔ		1.0 Δ	46			07	F078	TO39
90#	L037T1	15	5.0 %	5.0 %	27	17 *	3.2	400m	27mΩ	3.0mΩ/Δ	6.5	500m		1.0	46			07	F078	TO3
91#	TBA325C	15			27	17 *	3.2	400m	27mΩ	3.0mΩ/Δ		500m		1.0	46			07	F078	TO3
92	RC4195DN	15 §	1.3 %	1.3 %	30	3.0	600m	100m		15mΔ	12	20m	100m	30mΔ	75			07	F104	MP189
93	SG1501T	15 §	8.0	23	30	2.0	680m	100m			43	67m	50m	10mΔ				5C	F076	TO100
94	SG2501T	15 §	8.0	23	30	2.0	680m	100m			43	67m	50m	10mΔ				07	F076	TO100
95	MC1468G	15	14	20	30	2.0	800m	100m			12	10m§	50m	10mΔ	75 †			07	F098	CN10f
96	MC1568G	15	14	20	30	2.0	800m	100m			12	10m§	50m	10mΔ	75 †			5C	F098	CN10f
97	RC4195T	15 §	1.3 %	1.3 %	30	3.0	800m	100m		15mΔ	12	20m	100m	30mΔ	75			07	F104	TO99
98	RM4195T	15 §	1.3 %	1.3 %	30	3.0	800m	100m		15mΔ	12	20m	100m	30mΔ	75			5C	F104	TO99
99	SG1468T	15 §	14	20	30	2.0	800m	100m			12	10m§	50m	10mΔ	75 †			07	F098	TO100
100	SG1568T	15 §	14	20	30	2.0	800m	100m			12	10m§	50m	10mΔ	75 †			5C	F098	TO100
101	TVR2002J	15	3.0	27	30	2.5	800m	200m	200m		1.0	100m	100m		34	100n	100n	07		TO116
102	TVR2002V	15	3.0	27	30	2.5	800m	200m	200m		1.0	100m	100m		34	100n	100n	07		TO100
103▼	830CE	15			30	30	1.0	100m		900u	2.0	25m	49m	40m	60 †			07		TO39
104	MC1468L	15	8.0	20	30	2.0	1.0	100m			12	10m§	50m	10mΔ	75 †			07	F098b	TO116
105	MC1568L	15	8.0	20	30	2.0	1.0	100m			12	10m§	50m	10mΔ	75 †			5C	F098b	TO116
106	SG1468J	15 §	8.0	20	30	2.0	1.0	100m			12	10m§	50m	10mΔ	75 †			07	F098b	TO116
107	SG1468N	15 §	8.0	20	30	2.0	1.0	100m			12	10m§	50m	10mΔ	75 †			07	F098b	TO116
108	SG1501D	15 §	8.0	23	30	2.0	1.0	100m			43	67m	50m	10mΔ				5C	F076	TO116
109	SG1502D	15 §	10	28	30	2.0	1.0	100m			10	100m	50m	100m	75			5C	F076	TO116
110	SG1568J	15 §	8.0	20	30	2.0	1.0	100m			12	10m§	50m	10mΔ	75 †			5C	F098b	TO116

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C M P	D E	CKT.	DRAWINGS OUT-LINE Δ=MO
1	SG2501D	15 §	8.0	23	30	2.0	1.0	100m			43	67m	50m	10mΔ				07		F076	TO118
2	SG2502D	15 §	10	28	30	2.0	1.0	100m			10	100m	50m	100m	75			07		F076	TO116
3	SG2502N	15 §	10	28	30	2.0	1.0	100m			10	100m	50m	100m	75			07		F076	TO116
4	SG3501AD	15 §	8.0	23	30	2.0	1.0	200m			33	67m	50m	10mΔ				07		F076	TO118
5	SG3501AT	15 §	8.0	23	30	2.0	1.0	200m			33	67m	50m	10mΔ				07		F076	TO100
6	MC1468R	15	14	20	30	2.0	2.4	100m			12	10m§	50m	10mΔ	75 †			07		F098a	CN30
7	MC1568R	15	14	20	30	2.0	2.4	100m			12	10m§	50m	10mΔ	75 †			5C		F098a	CN30
8	RC4195TK	15 §	1.3 %	1.3 %	30	3.0	2.4	100m		15mΔ	12	20m	100m	30mΔ	75			07		F104	TO66
9	RM4195TK	15 §	1.3 %	1.3 %	30	3.0	2.4	100m		15mΔ	12	20m	100m	30mΔ	75			5C		F104	TO66
10#	SFC2815EC	15	14	15	35	2.0					13	300m§	1.5	300mΔ	60 †			07			Y220b
11#	SFC2815RC	15	14	15	35	2.0					13	300m§	1.5	300mΔ	60 †			07			TO3
12	uA78M15HC	15			35			700m			12	11mt§	495m	60mΔ	70 †			0H		F112	TO39
13	uA78M15HM	15			35			700m			12	11mt§	495m	60mΔ	70 †			5H		F112	TO39
14	uA7815KC	15	4.0 %	4.0 %	35			2.1	19mt	1.0mt§	12	300m§	1.4	150mΔ	54			0C		F091	TO3
15	uA7815KM	15	4.0 %	4.0 %	35			2.1	19mt	1.0mt§	12	150m§	1.4	150mΔ	60			5F		F091	TO3
16	uA7815UC	15	4.0 %	4.0 %	35			2.1	19mt	1.0mt§	12	300m§	1.4	150mΔ	54			0C		F091	Y220b
17	RC4194D	15 §	0.0	32	35	3.0	900m	150m		2.0m%	23	20m	100m	1.0m	90 †			0C		F096	MP40
18	SG1501AD	15 §	8.0	23	35	2.0	1.0	200m			43	67m	50m	10mΔ				5C		F076	TO116
19	SG1501AT	15 §	8.0	23	35	2.0	1.0	200m			43	67m	50m	10mΔ				5C		F076	TO100
20	SG2501AD	15 §	8.0	23	35	2.0	1.0	200m			43	67m	50m	10mΔ				07		F076	TO116
21	SG2501AT	15 §	8.0	23	35	2.0	1.0	200m			43	67m	50m	10mΔ				07		F076	TO100
22	MC7815CK	15	4.0 %	4.0 %	35	2.0	2.0	1.0	95mt	1.0mt	12	150m§	1.0m	300mΔ	60 †			0C		F091	CN48
23	MC7815CP	15	4.0 %	4.0 %	35	2.0	2.0	1.0	95mt	1.0mt	12	150m§	1.0m	300mΔ	60 †			0C		F091	MP331
24▼	MC7915CP	15 ♦	4.0 %	4.0 %	35	2.0	2.0	1.5		1.0mt	12	150m§	1.5	300mΔ	60 †			0C		F116	MP331
25▼	MC7915CK	15 ♦	4.0 %	4.0 %	35	2.0	2.5	1.5		1.0mt	12	150m§	1.5	300mΔ	60 †			0C		F116	CN48
26	843V15	15 §	12	20	35	3.5	3.0	300m	2.0m	1.0mΔ		5.0m	300m	5.0m	46			5C			CN2e
27	844V15*	15 §	12	20	35	3.5	3.0	300m				5.0mΔ	300m	5.0m	70			5C		F073	CN2e
28	RC4194TK	15 §	0.0	32	35	3.0	3.0	250m		2.0m%	23	20m	200m	1.0m	90 †			0C		F096	CN30
29	SG7815CK	15	4.0 %	4.0 %	35	2.5	15	2.2	95mt	2.0mt	12	2.0	1.5	2.0	70 †			0C		F091	TO3
30	SG7815CT	15	4.0 %	4.0 %	35	2.5	15	2.2	95mt	2.0mt	12	2.0	1.5	2.0	70 †			0C		F091	TO5
31	SG7815K	15	4.0 %	4.0 %	35	2.5	15	2.2	95mt	2.0mt	12	2.0	1.5	2.0	70 †			5E		F091	TO3
32	SG7815T	15	4.0 %	4.0 %	35	2.5	15	2.2	95mt	2.0mt	12	2.0	1.5	2.0	70 †			5E		F091	TO5
33	LM340K15	15	4.0 %	4.0 %	35	2.0	20	1.5	200m	3.0m	12	300m§	1.4	300mΔ	60 †			07		F110	TO3
34	LM340T15	15	4.0 %	4.0 %	35	2.0	20	1.5	200m	3.0m	12	300m§	1.4	300mΔ	60 †			07		F110	Y220
35	DE15D100	15	15	15	40			100m			1.0	10m	100m	10m				27			MP275a
36	AMLM305	15	4.5	30	40	3.0	500m					60mΔ	12m	100m				07		F100	TO99
37	AMLM305F	15	4.5	30	40	3.0	500m				10	60m	12m	100m				07		F100	TO91
38	AMLM305H	15	4.5	30	40	3.0	500m				10	60m	12m	100m				07		F100	TO99
39	LM304F	15 ♦	35m	30	40	2.0	500m§	25m		1.0 %	5.0	100m♦	20m	5.0mΔ	60	5.0ut	5.0ut	07		F002	FP2
40	LM304H	15 ♦	30	35m	40	2.0	500m			1.0 %	4.0	100m♦	20m	5.0mΔ	60			07		F002	TO100
41#	MT304	15 ♦	35m	30	40	2.0	500m			1.0 %	100m	100m	20m	5.0mΔ	46 †			07		F002	CN10e
42	NC531	15	8.0	38	40	2.0	500m	250m	500m	10mΔ		100mΔ	100m	250m	40 †			5C		F021	CN17a
43#	SFC2304	15 ♦	35m	30	40	2.0	500m§			1.0m%	4.0	100m♦	20m	5.0mΔ	60			07		F002	TO100
44	SG304T	15	35m	30	40	2.0	500m			1.0 %	4.0	100m	20m	5.0m	60			07		F002	TO100
45	MLM304G	15 ♦	35m	30	40	2.0	680m				5.0	100m	20m	5.0mΔ	60			07		F002	TO100
46	MLM305G	15	4.5	30	40	3.0	680m					60mΔ			47			07		F003	TO99
47▼	8308E	15			40	35	1.0	100m		500u	2.0	25m	49m	31m	60 †			5C			TO39
48	809V15	15			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
49	851V15	15 ♦			40	4.0	1.6	500m	10k	4.2m	1.9	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
50	852	15 ♦	9.0	21	40	4.0	1.6	500m	10k	4.2m	1.3	50m	500m	50m	60	5.0u	5.0u	5C		F013	MP34c
51	859V15	15 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
52	801V15	15			40	4.0	1.8	500m	10k	4.2m	2.1	50m	500m	50m	60	5.0u	5.0u	5C		F005	MP34
53	802%	15	9.0	21	40	4.0	1.8	500m	10k	4.2m	1.3	.05	500m	.05	60	5.0u	5.0u	5C		F006	MP34a
54	NC572	15	13	38	40	1.0	1.8	250m	100m	10mΔ		500mΔ	100m	100m	74			5H			CN35
55	NC581	15	12	38	40	2.0	1.8	625m	100m	10mΔ		500mΔ	100m	100m	74			5H			CN2c
56	NC583	15 ♦	12	38	40	2.0	1.8	625m	100m	10mΔ		500mΔ	100m	100m	74			5H			CN2c
57	LM120H15	15 ♦	2.0 %	2.0 %	40	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			5C		F109	TO5
58	LM220H15	15 ♦	2.0 %	2.0 %	40	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			28		F109	TO5
59	LM320H15	15 ♦	2.6 %	2.6 %	40	1.0	2.0	200m	30mt	100u	18	20m§	195m	40mΔ	80			07		F109	TO5
60	SG120-15T	15 ♦	2.0 %	2.0 %	40	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			5C		F108	TO5
61	SG220-15T	15 ♦	2.0 %	2.0 %	40	1.0	2.0	200m	30mt	200u	18	10m§	195m	25mΔ	80			28		F108	TO5
62	SG320-15T	15 ♦	2.6 %	2.6 %	40	1.0	2.0	200m	30mt	100u	18	20m§	195m	40mΔ	80			07		F108	TO5
63	VR1000	15	3.0	36	40	3.5	2.0	250m	500m	10mΔ	1.0	800u§	1.0m	7.0uΔ	60			5C			MP314
64	VR2000	15 ♦	3.0	36	40	4.5	2.0	250m	500m	10mΔ	1.0	800u§	1.0m	7.0 Δ	60			5C			MP314
65	RE15D100	15			40	1.0	3.0	100m	100m	3.0m	1.0	10m	100m	10m	80 †			27			MP275
66#	101N15	15 ♦			40	3.0	6.5	3.0		12m	1.0	600m	1.5	2.0	20			08		F095	MP295
67#	101P15	15			40	3.0	6.5	3.0		12m	1.0	600m	1.5	2.0	20			08		F095	MP295
68	LM120K15	15 ♦	2.0 %	2.0 %	40	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			5C		F109	TO3
69	LM220K15	15 ♦	2.0 %	2.0 %	40	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			28		F109	TO3
70	LM320K15	15 ♦	2.6 %	2.6 %	40	1.0	20	1.0	30mt	100u	18	20m§	995m	80mΔ	80			07		F109	TO3
71	SG120-15K	15 ♦	2.0 %	2.0 %	40	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			5C		F108	TO3
72	SG220-15K	15 ♦	2.0 %	2.0 %	40	1.0	20	1.0	30mt	200u	18	10m§	995m	80mΔ	80			28		F108	TO3
73	SG320-15K	15 ♦	2.6 %	2.6 %	40	1.0	20	1.0	30mt	100u	18	20m§	995m	80mΔ	80			07		F108	TO3
74▼#	SI3150G	15			40	4.0	50	1.5	120m	4.0m	10	1.6	1.5	1.2	52			28		F115	MP375
75	VR03-15AA	15			40	3.5	70	5.0		15mΔ	45m	10m	5.0	200m	60			5C		F101	MP313
76	VR03-15AB	15	13	16	40	3.5	70	5.0		15mΔ	45m	10m	5.0	200m	60			5C		F101	MP313
77	MIVR42050-158	15			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F			TO3
78	MIVR42051-154	15 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
79	RM4194D	15 §	0.0	42	45	3.0	900m	150m		2.0m%	33	20m	100m	1.0m	90 †			6F		F096	MP40
80	838V15	15			45	3.5	1.6	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0ut	12ut	5C		F072a	MP156
81	828V15	15			45	3.5	1.8	500m	25m	10mΔ	1.0	10m	500m	10m	66	6.0ut	12ut	5C		F072	MP156
82	RM4194TK	15 §	0.0	42	45	3.0	3.0	250m		2.0m%	33	20m	200m	1.0m	90 †			6F		F096	CN30
83	CTS873*	15 §	8.0	36	48	4.0	500m	100m	500m	5.0mΔ		30mΔ	100m	50m	50			5C		F040	CN2b
84	AMLM105	15	4.5	40	50	3.0	500m					60mΔ	12m	100m				5C		F100	TO99
85	AMLM105F	15	4.5	40	50	3.0	500m				10	60m	12m	100m				5C		F100	TO91
86	AMLM105H	15	4.5	40	50	3.0	500m				10	60m	12m	100m				5C		F100	TO99
87	AMLM205	15	4.5	40	50	3.0	500m					60mΔ	12m	100m				28		F100	TO99
88	AMLM205F	15	4.5	40	50	3.0	500m				10	60m	12m	100m				28		F100	TO91
89	AMLM205H	15	4.5	40	50	3.0	500m				10	60m	12m	100m				28		F100	TO99
90	AMLM305A	15	4.5	40	50	3.0	800m					60mΔ	12m	100m				07		F100	TO99
91♦#	SI3150E	15			55	4.0	25	1.0	200m	6.0m	10	1.9	1.0	1.3	37			2A		F082	TO3
92	SG4501N	15 §			60	2.0	600m	100m			43	10m§	50m	10mΔ	75 †			07		F097	TO116
93	SG4501T	15 §			60	2.0	680m	100m			43	10m§	50m	10mΔ	75 †			07		F097	TO100
94	LM376N	16	5.0	27	30	3.0	400m	25m		20m	18	400m	25m	1.5	50			07		F070	MP☑
95#	SFC2376DC	16	5.0	27	30	3.0	400m	25m		20m	18	400mΔ	25m	1.5	50			07		F070	MP48
96	HEPC6049G-RT	16	2.5	32	35	2.1	680m	250m	120m	2.0mΔ†		30mΔ	49m	130mΔ				07		F042	CN10m
97	HEPC6049R-RT	16	2.5	32	35	2.1	3.0	600m	120m	2.0mΔ†		30mΔ	49m	50mΔ				07		F042	CN30
98	LM200F	16	2.0	30	40	3.0	400m§	25m		1.0m%		200mΔ		500m		3.0u	3.0u	28		F001	FP2
99	LM200H	16	2.0	30	40	3.0	400m§	25m		1.0m%		200mΔ		500m		3.0u	3.0u	28		F001	CN1a
100	LM300F	16	2.0	30	40	3.0	400m§	25m		1.0m%		200m	2.0m	2.0		3.0u	3.0u	07		F001	FP2
101#	MT200F	16	2.0	30	40	3.0	400m	3.0m			5.0	200mΔ	12m	500m				28		F001	FP18
102#	MT200M	16	2.0	30	40	3.0	400m	3.0m			5.0	200mΔ	12m	500m				28		F001	CN1c
103#	SFC2200	16	2.0	30	40	8.5 *	400m			300u%		100mΔ	12m	100m				07		F001	TO99
104	SG200N	16	2.0	30	40	3.0	400m§	40m		1.0 %§		200mΔ		500m		3.0u		07		F001	MP39a
105#	MT100F	16	2.0	30	40	3.0	500m	3.0m		1.0 %		200mΔ	12m	500m				5E		F001	FP18
106#	MT100M	16	2.0	30	40	3.0	500m	3.0m		1.0 %		200mΔ	12m	500m				5E		F001	CN1c
107#	SFC2100M	16	2.0	30	40	8.5 *	500m			300u%		100mΔ	12m	100m				5C		F001	TO99
108	SG100T	16	2.0	30	40	3.0	680m§	40m		1.0 %§		200mΔ		500m		3.0u	5.0u	5C		F001	TO99
109	SG200T	16	2.0	30	40	3.0	680m§	40m		1.0 %§		200mΔ		500m		3.0u		07		F001	TO99
110	MIC723-1C	16	2.0	37	40	3.0	800m	150m		20uΔ§	2.8	200m	49m	600m	74 †			5C		F030	CN17d

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT VOLT V	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MAX TRANSIENT RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C O M P E -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1▼	SN72376L	16	5.0	37	40	3.0	800m	25m			3.0	60mΔ	12m	50m				07	F003	TO99
2▼	SN72376P	16	5.0	37	40	3.0	800m	25m			3.0	60mΔ	12m	50m				07	F003	MP267
3	809	16	5.0	28	40	2.0	1.6	750m	1.0	11m		300m	1.0m	3.0m	34			5C		
4	MIVR42050-168	16			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F		TO3
5	MIVR42051-164	16 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
6	MCC1463	17 ♦	3.8	32	35	3.0		600m	35mt				20m	700uΔ				5C	F064	FC6
7#	M5199T	17	2.5	32	35	9.5	650m	200m		10mtΔ		30mΔ	50m	10mΔ				27	F094	TO100
8	MC1469G	17	2.5	32	35	3.0	680m	250m	120m	2.0mtΔ		30mΔ		2.4mΔ	89 †		50n	07	F042	CN10b
9	MC1461G	17	2.5	32	35	3.0	3.0	250m	120m	2.0m%		30mΔ	19m	2.4mΔ	64		50n	07	F042	CN10b
10	MC1461R	17	2.5	32	35	3.0	3.0	600m	120m	2.0m%		30mΔ	19m	2.4mΔ	64		50n	07	F042	CN30
11	MC1469R	17	2.5	32	35	3.0	3.0	600m	120m	2.0mtΔ		30mΔ		2.4mΔ	89 †		50n	07	F042	CN30
12#	M5199AY	17	2.5	32	35	9.5 *	3.3	1.0	120m	10mtΔ		30mΔ	50m	10mΔ				27	D033	CN24
13	MCB1723F	17	2.0	37	40	3.0					28	200m	49m	150m	74 †			5C	F099a	TO86
14	MCBC1723	17	2.0	37	40	3.0					28	200m	49m	150m	74 †			5C	F099	FC15
15	SG305N	17	4.5	30	40	3.0	400m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	07	F003	MP39a
16	LM305H	17	4.5	30	40	3.0	500m			1.0 %		60mΔ	12m	30m	50			07	F003	TO99
17#	MT305	17	4.5	30	40	3.0	500m			1.0 %		60mΔ	12m	50m	53			07	F003	CN1c
18#	SFC2305	17	4.5	30	40	3.0	500m§			1.0m%		60mΔ	12m	50m	80			07	F003	TO99
19#	TBA352	17	1.8	34	40		630m§	115m	300m	2.5mtΔ								5C	F060	Δ002AL
20▼	SN52723FA	17	2.0	37	40	3.0	650m	150m			28	200m	49m	150m	74 †			5C	G030	FP2t
21▼	SN72723FA	17	2.0	37	40	3.0	650m	150m			28	500m	49m	200m	74 †			07	G030	FP2t
22	SG305T	17	4.5	30	40	3.0	680m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	5C	F003	TO99
23	MIC723-5C	17	2.0	37	40	3.0	800m	150m	50m	1.0m%	28	5.0	49m	600m	86 †	5.0ut	5.0ut	07	F030	CN17d
24	NE550G	17	2.0	37	50	3.0	800m	150m		100m%	30	150mΔ	50m	150mΔ	74			07		TO91
25	NE550K	17	2.0	37	50	3.0	800m	150m		100m%	30	150mΔ	50m	150mΔ	74			07		TO100
26	SE550G	17	2.0	37	50	3.0	800m	150m		100m%	30	150mΔ	50m	150mΔ	74			5C		TO91
27	SE550K	17	2.0	37	50	3.0	800m	150m		100m%	30	150mΔ	50m	150mΔ	74			5C		TO100
28▼	SN52105JP	17	4.5	40	50	3.0	800m	12m			10	30mΔ	12m	50m				5C	F003	MP383
29▼	SN52105L	17	4.5	40	50	3.0	800m	12m			10	30mΔ	12m	50m				5C	F003	TO99
30▼	SN72305AL	17	4.5	40	50	3.0	800m	45m			10	30mΔ	12m	50m				07	F003	TO99
31▼	SN72305AP	17	4.5	40	50	3.0	800m	45m			10	30mΔ	12m	50m				07	F003	MP267
32	HEPC6054G-RT	18 ♦	3.8	32	35	1.5		200m	120m	2.0mΔt		30mΔ	49m					07	F064	CN10m
33	HEPC6054R-RT	18 ♦	3.8	32	35	1.5		200m	120m	2.0mΔt		30mΔ	49m					07	F064	CN30
34	MCC1469	18	2.5	32	35	3.0		600m	35mt									5C	F042	FC7
35#	SFC2818EC	18	3.8 %	3.8 %	35	2.0					12	360m§	1.0	360mΔ	59 †			07		Y220b
36#	SFC2818RC	18	3.8 %	3.8 %	35	2.0					12	360m§	1.0	360mΔ	59 †			07		TO3
37	uA7818KC	18	3.8 %	3.8 %	35			2.1	22mt	1.0mt§	12	360m§	1.4	360mΔ	53			0C	F091	TO3
38	uA7818KM	18	3.8 %	3.8 %	35			2.1	22mt	1.0mt§	12	180m§	1.4	180mΔ	59			5F	F091	TO3
39	uA7818UC	18	3.8 %	3.8 %	35			2.1	22mt	1.0mt§	12	360m§	1.4	360mΔ	53			0C	F091	Y220b
40	MC7818CK	18	3.8 %	3.8 %	35	2.0	2.0	1.5	110mt	1.0mt	12	180m§	1.0m	360mΔ	59 †			0C	F091	CN48
41	MC7818CP	18	3.8 %	3.8 %	35	2.0	2.0	1.5	110mt	1.0mt	12	180m§	1.0m	360mΔ	59 †			0C	F091	MP331
42▼	MC7918CP	18 ♦	3.8 %	3.8 %	35	2.0	2.0	1.5		1.0mt	12	180m§	1.0	360mΔ	59 †			0C	F116	MP331
43	MC1463G	18 ♦	3.8	32	35	1.5	2.4	200m	35m	2.0mtΔ		30mΔ	19m	2.4mΔ	94 †			07	F064	CN10b
44	MC1463R	18 ♦	3.8	32	35	1.5	2.4	500m	35m	2.0mtΔ		30mΔ	19m	2.4mΔ	94 †			07	F064	CN30
45▼	MC7918CK	18 ♦	3.8 %	3.8 %	35	2.0	2.5	1.5		1.0mt	12	180m§	1.0	360mΔ	59 †			0C	F116	CN48
46	844V18*	18 §	12	20	35	3.5	3.0	300m				5.0mΔ	300m	5.0m	70			5C	F073	CN2e
47	SG7818CK	18	3.8 %	3.8 %	35	3.0	15	2.2	110mt	1.0mt§	12	2.0	1.0	2.0	69 †			0C	F091	TO3
48	SG7818CT	18	3.8 %	3.8 %	35	3.0	15	2.2	110mt	1.0mt§	12	2.0	1.0	2.0	69 †			0C	F091	TO5
49	SG7818K	18	3.8 %	3.8 %	35	3.0	15	2.2	110mt	1.0mt§	12	2.0	1.0	2.0	69 †			5E	F091	TO3
50	SG7818T	18	3.8 %	3.8 %	35	3.0	15	2.2	110mt	1.0mt§	12	2.0	1.0	2.0	69 †			5E	F091	TO5
51	LM340K18	18	3.8 %	3.8 %	35	3.0	20	1.5	360m	3.6m	12	360m§	995m	360mΔ	59 †			07	F110	TO3
52	LM340T18	18	3.8 %	3.8 %	35	3.0	20	1.5	360m	3.6m	12	360m§	995m	360mΔ	59 †			07	F110	Y220
53	MCC1723	18	2.0	37	40	3.0					28	500mΔ	49m	150mΔ	76 †			5C	F030	FC12
54	MCC1723C	18	2.0	37	40	3.0					28	500mΔ	49m	200mΔ	76 †			5C	F030	FC12
55▼	MPC1000	18	2.0	35	40	3.0				5.0m	3.0	100mΔ	3.9	150m				5K	F117	CN53
56	LM305F	18 ♦	4.5	30	40	3.0	500m§	12m		1.0 %		60mΔ	12m	50m	80			07	F003	FP2
57	809V18	18			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
58	851V18	18 ♦			40	4.0	1.6	500m	10k	4.2m	2.2	50 Δ	500m	50m	60	5.0u	5.0u	5C	F012	MP34b
59	859V18	18 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C		MP34e
60	801V18	18			40	4.0	1.8	500m	10k	4.2m	2.4	50 Δ	500m	50m	60	5.0u	5.0u	5C	F005	MP34
61#	101N18	18 ♦			43	3.0	6.5	3.0		15m	1.0	500m	1.5	1.5	20			08	F095	MP295
62#	101P18	18			43	3.0	6.5	3.0		15m	1.0	500m	1.5	1.5	20			08	F095	MP295
63	MIVR42050-188	18			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F		TO3
64	MIVR42051-184	18 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F		TO3
65	LM305AF	18	4.5	40	50	3.0	800m	45m			5.0	60mΔ	45m	200m		5.0u	5.0u	07	F003	FP2n
66♦	MFC4060A	19	3.6	35	38	3.0	1.0	200m		30mΔ	6.0	30mΔ	49m	200m				17	F102	MP223
67♦	MFC4062A	19	3.6	35	38	3.0	1.0	200m		30mΔ	6.0	60mΔ	49m	400m				17	F102	MP223
68♦	MFC6030A	19	3.6	35	38	3.0	1.0	200m		30mΔ	6.0	30mΔ	49m	200m				17	F103	MP223
69♦	MFC6032A	19	3.6	35	38	3.0	1.0	200m		30mΔ	6.0	60mΔ	49m	400m				17	F103	MP223
70	SG723CN	19	2.0	37	40	3.0	400m§	150m		15m%		500mΔ		200m	86 †	20u	10u	07	F030	MP39a
71	CA3085A	19	1.6	37	40	4.0	630m		300m	3.5mtΔ		100mΔ	99m	600mΔ	50 †	800n	3.0u	5C	F088	Δ002AL
72	CA3085AS	19	1.6	37	40	4.0	630m		300m	3.5 Δt		100mΔ	99m	600mΔ	50 †	800n	3.0u	5C	F088	
73	LM723CN	19	2.0	37	40	3.0	660m	150m		15mΔ	28	500m	49m	200m	74 †	10ut	8.0ut	07	F030	MP39n
74	LM723N	19	2.0	37	40	3.0	660m	150m		15mΔ	28	200m	49m	150m	74 †	10ut	8.0ut	5C	F030	MP39n
75	MC1569G	19	2.5	37	40	2.7	680m	250m	80m	2.0mtΔ		15mΔ		1.6mΔ	88 †		50n	5C	F042	CN10b
76	SG723CT	19	2.0	37	40	3.0	680m§	150m		15m%		500mΔ		200m	86 †	20u	10u	5C	F030	TO100
77	SG723T	19	2.0	37	40	3.0	680m§	150m		15m%		200mΔ		150m	86 †	20u	10u	5C	F030	TO100
78	JANM38510/10201AIA	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
79	JANM38510/10201AIB	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
80	JANM38510/10201AIC	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
81	JANM38510/10201BIA	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
82	JANM38510/10201BIB	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
83	JANM38510/10201BIC	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
84	JANM38510/10201CIA	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
85	JANM38510/10201CIB	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
86	JANM38510/10201CIC	19	2.0	37	40	2.5	700m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	CN10e
87▼	723CJ	19	2.0	37	40	3.0	780m	150m		15m	3.0	100m	49m	150m	74 †			07	F030b	TO116
88	723-12-5R	19	2.0	37	40	3.0	800m	150m		15mΔ	3.0	100mΔ	49m	150mΔ	74 †	5.0ut	5.0ut	5C	F030b	CN10f
89	723-93-5R	19	2.0	37	40	3.0	800m	150m		15mΔ	3.0	100mΔ	49m	200mΔ	74 †	5.0ut	5.0ut	07	F030b	CN10f
90	723BE	19	2.0	37	40	3.0	800m	150m		15m§Δ	3.0	100mΔ	49m	150mΔ	74 †			5C	F030b	TO96
91	723CE	19	2.0	37	40	3.0	800m	150m		15mΔ§	3.0	100mΔ	49m	150mΔ	74 †			07	F030b	TO96
92	823BE	19	2.0	37	40	2.5	800m	150m		15mΔ§	3.0	20mΔ	49m	100mΔ	70			5C	F081	TO96
93#	L123B1	19	2.0	37	40	3.0	800m	150m	50m	1.0m%	28	5.0	50m	600m	86 †	5.0ut	5.0ut	07	F030	MP39
94#	L123T1	19	2.0	37	40	3.0	800m	150m				500m		200m	74 †			07	F030	TO100
95#	L123T2	19	2.0	37	40	3.0	800m	150m	50m			200m		150m	74 †			5C	F030	TO100
96	LM723CH	19	2.0	37	40	3.0	800m	150m		15mΔ	28	500m	49m	200m	74 †	10ut	8.0ut	07	F030	CN10f
97	LM723H	19	2.0	37	40	3.0	800m	150m		15mΔ	28	200m	49m	150m	74 †	10ut	8.0ut	5C	F030	CN10f
98	JANM38510/10201AAA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
99	JANM38510/10201AAB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT LINE VOLT |V|	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUT-PUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	OUT VOLT. CHG. (%)	MAX TRANSIENT RECOVERY MIN RIPPL REJ. (dB)	@LINE CHG. (s)	@LOAD CHG. (s)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1	JANM38510/10201AAC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
2	JANM38510/10201ABA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
3	JANM38510/10201ABB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
4	JANM38510/10201ABC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
5	JANM38510/10201ADA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
6	JANM38510/10201ADB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
7	JANM38510/10201ADC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
8	JANM38510/10201AHA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
9	JANM38510/10201AHB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
10	JANM38510/10201AHC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
11	JANM38510/10201BAA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
12	JANM38510/10201BAB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
13	JANM38510/10201BAC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
14	JANM38510/10201BBA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
15	JANM38510/10201BBB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
16	JANM38510/10201BBC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
17	JANM38510/10201BDA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
18	JANM38510/10201BDB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
19	JANM38510/10201BDC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
20	JANM38510/10201BHA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
21	JANM38510/10201BHB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
22	JANM38510/10201BHC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
23	JANM38510/10201CAA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
24	JANM38510/10201CAB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
25	JANM38510/10201CAC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24
26	JANM38510/10201CBA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
27	JANM38510/10201CBB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
28	JANM38510/10201CBC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP24a
29	JANM38510/10201CDA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
30	JANM38510/10201CDB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
31	JANM38510/10201CDC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP25
32	JANM38510/10201CHA	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
33	JANM38510/10201CHB	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
34	JANM38510/10201CHC	19	2.0	37	40	2.5	800m§	85m		15mΔ	28	2.0	9.0m	500m	64			5C	F030d	FP2r
35	MC1723CF	19	2.0	37	40	3.0	800m	150m		15mΔ		300mΔ		600mΔ	74 †			07	F030	TO91
36	MC1723CG	19	2.0	37	40	3.0	800m	150m		15mΔ		300mΔ		600mΔ	74 †			07	F030	TO100
37	MC1723CL	19	2.0	37	40	3.0	800m	150m		15mΔ		300mΔ		600mΔ	74 †			07	F030	TO116
38	MC1723F	19	2.0	37	40	3.0	800m	150m		15mΔ	–	300mΔ		600mΔ	74 †			5C	F030	TO91
39	MC1723G	19	2.0	37	40	3.0	800m	150m		15mΔ		300mΔ		600mΔ	74 †			5C	F030	TO100
40	MC1723L	19	2.0	37	40	3.0	800m	150m		15mΔ		300mΔ		600mΔ	74 †			5C	F030	TO116
41	MIC723-1	19 §	2.0	37	40	3.0	800m	150m		15mΔ	28	200m	49m	150m	74 †			5C	F030	CN10e
42	MIC723-5	19 §	2.0	37	40	3.0	800m	150m		15mΔ	28	500m	49m	200m	74 †			07	F030	CN10e
43	MS723C	19	2.0	37	40	3.0	800m	150m	50m	15m§Δ	28	500m	49m	600m	74 †	5.0u	5.0u	6G	F085	FP2q
44	N5723A	19	2.0	37	40	3.0	800m	4.0m		15mΔ	3.0	100m	49m	150m	74 †			07	F079	MP153
45	NE550A	19	2.0	37	40	3.0	800m	3.0m		15mΔ	31	300m	49m	200m	75 †			07	F080	MP153
46	NE550L	19	2.0	37	40	3.0	800m	150m	50m	15mΔ	28	300m	50m	200m	75 †	1.0u†	2.0u†	07	F080	CN10g
47	RC723D	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	100m	49m	150m	74 †	5.0u†	5.0u†	07	F030	MP40
48	RC723DP	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	100m	49m	150m	74 †	5.0u†	5.0u†	07	F030	MP40
49	RM723D	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	20m	49m	150m	74 †	5.0u†	5.0u†	5C	F030	MP40
50	RM723T	19	2.0	37	40	3.0	800m	150m		20uΔ§	28	200m	49m	150m	74	5.0u	5.0u	5C	F030	TO100
51	S5723A	19	2.0	37	40	3.0	800m	150m	50m	15mΔ	28	200m	49m	600m	74 †	5.0u	5.0u	5C	F030	MP153
52	S5723L	19	2.0	37	40	3.0	800m	150m	50m	15mΔ	28	200m	49m	600m	74 †	5.0u	5.0u	5C	F030	CN10g
53#	SFC2723C	19	2.0	37	40	3.0	800m	150m		15m%	28	500mΔ	49m	200m	86 †			07	F030a	TO100
54#	SFC2723M	19	2.0	37	40	3.0	800m	150m		15m%	28	200mΔ	49m	150m	86 †			5C	F030a	TO100
55	SN52723J	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	200m	49m	600m	74 †	5.0u	5.0u	5C		MP139
56	SN52723L	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	200m	49m	600m	74 †	5.0u	5.0u	5C		TO100
57	SN72723J	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	500m	49m	600m	74 †	5.0u	5.0u	07		MP139
58	SN72723L	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	500m	49m	600m	74 †	5.0u	5.0u	07		TO100
59	SN72723N	19	2.0	37	40	3.0	800m	150m	50m†	15mΔ	28	500m	49m	600m	74 †	5.0u	5.0u	07		MP39h
60#	TBA281%	19	2.0	37	40	3.0	800m	50m		15mΔ§	3.0	100m	49m	200m	74 †			07	F030a	CN10f
61#	TL1723	19	2.0	37	40	3.0	800m	150m		15m§Δ	28	200m	49m	150m	74 †			5C	F030b	TO100
62#	TL1723C	19	2.0	37	40	3.0	800m	150m		15m§Δ	28	500m	49m	200m	74 †			07	F030b	TO100
63#	TL3723C	19	2.0	37	40	3.0	800m	150m		15m§Δ	28	500m	49m	200m	75 †			07	F030c	MP39f
64	TVR1723J	19	2.0	37	40	3.0	800m	150m		20uΔ§	2.8	200m	49m	600m	74 †			5C		TO116
65	TVR1723V	19	2.0	37	40	3.0	800m	150m		20uΔ§	2.8	200m	49m	600m	74 †			5C		TO100
66	TVR2723J	19	2.0	37	40	3.0	800m	150m	50n	1.0m%	28	5.0	49m	600m	86 †	5.0u†	5.0u†	07		TO116
67	TVR2723V	19	2.0	37	40	3.0	800m	150m	50m	1.0m%	28	5.0	49m	600m	86 †	5.0u†	5.0u†	07		TO100
68	uA723HC	19	2.0	37	40	3.0	800m			15mΔ§	28	500m	49m	200m	74 †			07	G030	TO100
69	uA723HM	19	2.0	37	40	3.0	800m			15mΔ§	28	200m	49m	150m	74 †			5C	G030	TO100
70	UC4723	19	2.0	37	40	3.0	800m	150m		20uΔ§	2.8	200m	49	600m	74 †			5C	F030	TO100
71▼	AM723HC	19	2.0	37	40	3.0	850m			15mΔ%	3.0	300mΔ	49m	600mΔ	74 †			07	F079	MP151a
72▼	AM723HM	19	2.0	37	40	3.0	850m			15mΔ%	3.0	300mΔ	49m	600mΔ	74 †			5C	F079	MP151a
73#	MT723	19	2.0	37	40	3.0	850m			15mΔ§	3.0	100mΔ	49m	150mΔ	74 †			5C	F030	TO100
74#	MT723C	19	2.0	37	40	3.0	850m			15mΔ§	3.0	100mΔ	49m	200mΔ	74 †			07	F030	TO100
75	723-93-6E	19	2.0	37	40	3.0	900m	150m		15mΔ	3.0	100mΔ	49m	200mΔ	74 †	5.0u†	5.0u†	07	F030c	MP39
76▼	AM723DC	19	2.0	37	40	3.0	900m			15mΔ%	3.0	300mΔ	49m	600mΔ	74 †			07	F079	CN37a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V (3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN IN/OUT DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MAX TRANSIENT RECOVERY MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C M P	E O D E -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1▼	AM723DM	19	2.0	37	40	3.0	900m			15mΔ%	3.0	300mΔ	49m	600mΔ	74 †			5C		F079	CN37a
2	LM723CD	19	2.0	37	40	3.0	900m	150m		15mΔ	28	500m	49m	200m	74 †	10u†	8.0u†	07		F030	MP148
3	LM723D	19	2.0	37	40	3.0	900m	150m		15mΔ	28	200m	49m	150m	74 †	10u†	8.0u†	5C		F030	MP148
4	RC723T	19	2.0	37	40	3.0	900m	150m		1.0M%	28	500m	49m	200m	74	5.0u	5.0u	07			TO100
5#	SFC2723EC	19	2.0	37	40	3.0	900m	150m		15m%	28	500mΔ	49m	200m	86 †			07		F030a	TO116
6#	SFC2723EM	19	2.0	37	40	3.0	900m	150m		15m%	28	200mΔ	49m	150m	86 †			5C		F030a	TO116
7	JANM38510/10201ACA	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
8	JANM38510/10201ACB	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP14z
9	JANM38510/10201ACC	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
10	JANM38510/10201BCA	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
11	JANM38510/10201BCB	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
12	JANM38510/10201BCC	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
13	JANM38510/10201CCA	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
14	JANM38510/10201CCB	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
15	JANM38510/10201CCC	19	2.0	37	40	2.5	1.0 §	85m		15mΔ	28	2.0	9.0m	500m	64			5C		F030d	MP315
16	uA723DC	19	2.0	37	40	3.0	1.0			15mΔ§	28	500m	49m	200m	74 †			07		G030	TO116
17	uA723DM	19	2.0	37	40	3.0	1.0			15mΔ§	28	200m	49m	150m	74 †			5C		G030	TO116
18	HIC106	19	2.0	37	40	2.5	2.7	1.0							74 †			5C		F090a	CN2h
19	HIC107	19 ♦	2.0	37	40	3.0	2.7	1.0							74 †			5C		F090	CN2h
20	MC1561G	19	2.5	37	40	2.7	3.0	250m	80m	2.0m%		15mΔ	19m	1.6mΔ	69		50n	5C		F042	CN10b
21	MC1561R	19	2.5	37	40	2.7	3.0	600m	80m	2.0m%		15mΔ	19m	1.6mΔ	69		50n	5C		F042	CN30
22	MC1569R	19	2.5	37	40	2.7	3.0	600m	80m	2.0m†Δ		15mΔ		1.6mΔ	88 †		50n	5C		F042	CN30
23	N5723K	19	2.0	37	40	3.0	800	150	50	1.0 %	28	5.0	49m	600m	86	5.0u†	5.0u	07			TO100
24	S5723K	19	2.0	37	40	3.0	800	150		20uΔ	2.8	200m	49m	600m	74			5C			TO100
25▼	SN52104JA	19 ♦	15m	40	50	2.0	800m	20m			35	100m	20m	5.0mΔ				5C		F002	MP381
26▼	SN52104L	19 ♦	15m	40	50	2.0	800m	20m			35	100m	20m	5.0mΔ				5C		F002	TO100
27	844V20*	20 §	12	20	35	3.5	3.0	300m				5.0mΔ	300m	5.0m	70			5C		F073	CN2e
28	MCC1563	20 ♦	3.6	37	40	2.7		600m	20m†				20m	400uΔ				5C		F064	FC6
29	MCC1569	20	2.5	37	40	2.7		600m	20m†									5C		F042	FC7
30	uA78M20HC	20			40			700m			13	15m†§	495m	80mΔ	69 †			0H		F112	TO39
31	uA78M20HM	20			40			700m			13	15m†§	495m	80mΔ	69 †			5H		F112	TO39
32	TVR2000J	20	3.0	37	40	2.2	800m	200m	50m		1.0	1.5m	100m		40	100n	100n	5C			TO116
33	TVR2000V	20	3.0	37	40	2.2	800m	200m	50m		1.0	15m	100m		40	100n	100n	5C			TO100
34	TVR2001J	20	3.0	37	40	2.5	800m	200m	100m		1.0	30m	100m		34	100n	100n	07			TO116
35	TVR2001V	20	3.0	37	40	2.5	800m	200m	100m		1.0	30m	100m		34	100n	100n	07			TO100
36	MC1563G	20 ♦	3.6	37	40	1.5	2.4	200m	20m	2.0m†Δ		15mΔ	19m	1.6mΔ	94 †			5C		F064	CN10b
37	MC1563R	20 ♦	3.6	37	40	1.5	2.4	500m	20m	2.0m†Δ		15mΔ	19m	1.6mΔ	94 †			5C		F064	CN30
38#	S1005	20 ♦	10	30	40	2.2	2.5	250m	20m	30mΔ		5.0mΔ			63			28		F086	MP232
39#	S1006	20 ♦	10	30	40	2.2	2.5	250m	20m	30mΔ		5.0mΔ			63			28		F086	MP232
40#	S1011	20 ♦	11	30	40	3.1	3.0	500m	20m	30mΔ		4.5mΔ			63			28		F086	MP233
41#	S1012	20 ♦	11	30	40	3.1	3.0	500m	20m	30mΔ		4.5mΔ			63			28		F086	MP233
42#	S1017	20 ♦	11	30	40	3.0	10	2.0	5.0m	30mΔ		4.5mΔ			63			28		F086	MP234
43#	S1018	20 ♦	11	30	40	3.0	10	2.0	5.0m	30mΔ		4.5mΔ			63			28		F086	MP234
44#	S1025	20 ♦	11	30	40	3.0	25	5.0	5.0m	30mΔ		4.5mΔ			63			2B		F086	MP235
45#	S1026	20 ♦	11	30	40	3.0	25	5.0	5.0m	30mΔ		4.5mΔ			63			2B		F086	MP235
46	MIVR42050-208	20			44		120	8.0		50mΔ	40	100m	8.0	200m	60			$F			TO3
47	MIVR42051-204	20 ♦			44		120	4.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
48	LM104F883	20	15m	40	50	2.0	500m§	25m		1.0m%	100m	100m	20m	100m	60	3.0u	3.0u	5C		F002	FP2
49	LM104F	20 ♦	15m	40	50	2.0	500m			1.0 %	4.0	100m	20m	5.0mΔ	60	5.0u†	5.0u†	5C		F002	
50	LM104H883	20	15m	40	50	2.0	500m§	25m		1.0m%	100m	100m	20m	100m	60	3.0u	3.0u	5C		F002	CN17c
51	LM104H	20 ♦	15m	40	50	2.0	500m			1.0 %	4.0	100m	20m	5.0mΔ	60	5.0u†	5.0u†	5C		F002	CN10e
52	LM204F	20 ♦	15m	40	50	2.0	500m§	25m		1.0 %	5.0	100m♦	20m	5.0mΔ	60	5.0u†	5.0u†	5C		F002	FP2
53	LM204H	20 ♦	15m	40	50	2.0	500m			1.0 %	5.0	100m♦	20m	5.0mΔ	60	5.0u†	5.0u†	28		F002	TO100
54#	MT104	20 ♦	15m	40	50	2.0	500m			1.0 %	100m	100m	20m	5.0mΔ	46 †			5C		F002	CN10e
55#	MT204	20 ♦	15m	40	50	2.0	500m				100m	100m	20m	5.0mΔ	46 †			28		F002	CN10e
56#	SFC2104M	20 ♦	15m	40	50	2.0	500m§			1.0m%	5.0	100m♦	20m	5.0mΔ	60	3.0u†	3.0u†	5C		F002	TO100
57#	SFC2204	20 ♦	15m	40	50	2.0	500m§			1.0m%	5.0	100m♦	20m	5.0mΔ	60			28		F002	TO100
58	SG104F	20	15m	40	50	2.0	500m			1.0 %	4.0	100m	20m	5.0m	60	5.0u†	5.0u†	5C		F002	
59	SG104T	20	15m	40	50	2.0	500m			1.0 %	4.0	100m	20m	5.0m	60	5.0u†	5.0u†	5C		F002	TO100
60	SG204T	20	15m	40	50	2.0	500m			1.0 %	5.0	100m	20m	5.0mΔ	60	5.0u†	5.0u†	28		F002	TO100
61	MLM104G	20 ♦	15m	40	50	2.0	680m				5.0	100m	20m	5.0mΔ	60			5C		F002	TO100
62	MLM105G	20	4.5	40	50	3.0	680m					60mΔ			47			5C		F003	TO99
63	MLM204G	20 ♦	15m	40	50	2.0	680m				5.0	100m	20m	5.0mΔ	60			28		F002	TO100
64	MLM205G	20	4.5	40	50	3.0	680m					60mΔ			47			28		F003	TO99
65	809V21	21			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
66	851V21	21 ♦			40	4.0	1.6	500m	10k	4.2m	2.5	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
67	859V21	21 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
68	801V21	21			40	4.0	1.8	500m	10k	4.2m	2.7	50m	500m	50m	60	5.0u	5.0u	5C		F005	MP34
69	823AE	21	2.0	40	50	2.5	800m	150m		5.0mΔ§	3.0	20mΔ	49m	100mΔ	70			5C		F081	TO96
70	SE550L	21	2.0	40	50	3.0	800m	150m	50m	12mΔ	28	100m	50m	100m	75 †	1.0u†	2.0u†	5C		F080	CN10g
71	LM105F883	22	4.5	40	30	3.0	500m§	25m		1.0m%	1.0	60mΔ	25m	100m	80	1.0u	1.0u	5F		F003	FP2
72	LM105H883	22	4.5	40	30	3.0	500m§	25m		1.0m%	1.0	60mΔ	25m	100m	80	1.0u	1.0u	5F		F003	CN1a
73	MIVR42050-224	22			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
74	MIVR42051-223	22 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
75	SG205N	22	4.5	40	50	3.0	400m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	07		F003	MP39a
76	LM105F	22	4.5	40	50	3.0	500m			1.0 %		60mΔ	12m	100m	80	3.0u†	3.0u†	5C		F003	FP2
77	LM105H	22	4.5	40	50	3.0	500m			1.0 %		60mΔ	12m	100m	80	3.0u†	3.0u†	5C		F003	CN1c
78	LM205F	22	4.5	40	50	3.0	500m§	20m		1.0m%		10m	20m	100m	80	2.0u	2.0u	2A		F003	FP2
79	LM205H	22	4.5	40	50	3.0	500m§	20m		1.0m%		10m	20m	100m	80	2.0u	2.0u	2A		F003	CN1a
80#	MT105F	22	4.5	40	50	3.0	500m			1.0 %	5.0	60mΔ	12m	50m	53			5E		F003	FP18
81#	MT105M	22	4.5	40	50	3.0	500m			1.0 %	5.0	60mΔ	12m	50m	53			5E		F003	CN1c
82#	MT205F	22	4.5	40	50	3.0	500m				5.0	60mΔ	12m	50m	53			2A		F003	FP18
83#	MT205M	22	4.5	40	50	3.0	500m				5.0	60mΔ	12m	50m	53			2A		F003	CN1c
84#	SFC2105M	22	4.5	40	50	3.0	500m§			1.0m%		60mΔ	12m	50m	80	1.0u†	1.0u†	5C		F003	TO99
85#	SFC2205	22	4.5	40	50	3.0	500m§			1.0m%		60mΔ	12m	50m	80			28		F003	TO99
86	SG105T	22	4.5	40	50	3.0	680m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	5C		F003	TO99
87	SG205T	22	4.5	40	50	3.0	680m§	40m		1.0 %§		60mΔ		100m	40	3.0u	3.0u	5C		F003	TO99
88	LM305AH	22	4.5	40	50	3.0	800m	45m		1.0 %		60mΔ	45m	30m	50			07		F003	TO99
89	NC530	23	8.0	38	40	2.0	500m	250m	500m	10mΔ		100mΔ	100m	250m	40 †			5C			CN17a
90	MC7824CK	24	4.1 %	4.1 %	35	2.0	2.0	1.0	150m†	1.0m†	11	240m§	1.0m	48mΔ	56 †			0C		F091	CN48
91	MC7824CP	24	4.1 %	4.1 %	35	2.0	2.0	1.0	150m†	1.0m†	11	240m§	1.0m	48mΔ	56 †			0C		F091	MP331
92	DE24D100	24			40			100m			1.0	10m	100m	10m				27			MP275a
93#	SFC2824EC	24	4.2 %	4.2 %	40	2.0					11	480m§	1.0	480mΔ	56 †			07			Y220b
94#	SFC2824RC	24	4.2 %	4.2 %	40	2.0					11	480m§	1.0	480mΔ	56 †			07			TO3
95	uA78M24HC	24			40			700m			11	18m†§	495m	100mΔ	66 †			0H		F112	TO39
96	uA78M24HM	24			40			700m			11	18m†§	495m	100mΔ	66 †			5H		F112	TO39
97	uA7824KC	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†§	11	480m§	1.4	480mΔ	50			0C		F091	TO3
98	uA7824KM	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†§	11	240m§	1.4	240mΔ	56			5F		F091	TO3
99	uA7824UC	24	4.1 %	4.1 %	40			2.1	28m†	1.5m†§	11	480m§	1.4	480mΔ	50			0C		F091	Y220b
100	NC512	24			40		500m	200m	2.0 †	5.0m	2.0	1.0	100m	250m	24			5C		F021	CN10a
101	NC514	24 ♦			40		500m	200m	2.0 †	5.0m	2.0	1.0	100m	250m	24			5C		F022	CN10a

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

8. VOLTAGE REGULATORS

IN ORDER OF (1)NOM V OUT (2)MAX INPUT LINE V
(3)MAX POWER DISSIPATION (4)TYPE No.

LINE No.	4 TYPE No.	1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN IN/OUT DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)	T C M P	E O D E	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO
1	PC502	24			40		500m	200m	500m	5.0m	2.0	1.0	100m	250m	24			5C		F027a	FP10
2	PC504	24 ♦			40		500m	200m	500m	5.0m	2.0	1.0	100m	250m	24			5C		F027	FP10
3	PC512	24			40		500m	200m	2.0 †	5.0m	2.0	1.0	100m	250m	24			5C		F021	FP7
4	PC514	24 ♦			40		500m	200m	2.0 †	5.0m	2.0	1.0	100m	250m	24			5C		F022	FP7
5	809V24	24			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
6	853V24	24 ♦			40	4.0	1.6	500m	10m	6.4m	2.8	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
7	859V24	24 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
8	803V24	24			40	4.0	1.8	500m	10m	6.4m	3.0	50m	500m	50m	60	5.0u	5.0u	5C		F005	MP34
9▼	MC7924CP	24 ♦	4.1 %	4.1 %	40	2.0	2.0	1.5		1.0m†	11	240m§	1.0	480mΔ	56 †			0C		F116	MP331
10▼	MC7924CK	24 ♦	4.1 %	4.1 %	40	2.0	2.5	1.5		1.0m†	11	240m§	1.0	480mΔ	56 †			0C		F116	CN48
11	RE24D100	24			40	1.0	3.0	100m	100m	4.8m	1.0	10m	100m	10m	80 †			27			MP275
12	SG7824CK	24	4.2 %	4.2 %	40	3.0	15	2.2	150m†	1.0m†§	11	2.0	1.0	2.0	66 †			0C		F091	TO3
13	SG7824CT	24	4.2 %	4.2 %	40	3.0	15	2.2	150m†	1.0m†§	11	2.0	1.0	2.0	66 †			0C		F091	TO5
14	SG7824K	24	4.2 %	4.2 %	40	3.0	15	2.2	150m†	1.0m†§	11	2.0	1.0	2.0	66 †			5E		F091	TO3
15	SG7824T	24	4.2 %	4.2 %	40	3.0	15	2.2	150m†	1.0m†§	11	2.0	1.0	2.0	66 †			5E		F091	TO5
16	LM340K24	24	4.1 %	4.1 %	40	3.0	20	1.5	480m	5.0m	11	480m§	995m	480mΔ	56 †			07		F110	TO3
17	LM340T24	24	4.1 %	4.1 %	40	3.0	20	1.5	480m	5.0m	11	480m§	995m	480mΔ	56 †			07		F110	Y220
18▼#	SI3240G	24			40	4.0	50	1.5	85m	5.0m	10	1.1	1.5	830m	52			28		F115	MP375
19	MIVR42050-244	24			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
20	MIVR42051-243	24 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
21#	101N24	24 ♦			49	3.0	6.5	3.0		20m	1.0	400m	1.5	1.2	20			08		F095	MP295
22#	101P24	24			49	3.0	6.5	3.0		20m	1.0	400m	1.5	1.2	20			08		F095	MP295
23	CA3085B	24	1.6	47	50	3.5	630m		300m	3.5m†Δ		80mΔ	99m	600mΔ	45	800n	3.0u	5C		F088	Δ002AL
24	CA3085BS	24	1.6	47	50	3.5	630m		300m	3.5mΔ†		80mΔ	99m	600mΔ	45	800n	3.0u	5C		F088	
25♦#	SI3240E	24			55	4.0	25	1.0	200m	10m	10	1.3	1.0	1.0	37			2A		F082	TO3
26	854	26 ♦	20	32	40	4.0	1.6	500m	10m	6.4m	2.4	50m	500m	50m	60	5.0u	5.0u	5C		F013	MP34c
27	804%	26	20	32	40	4.0	1.8	500m	10m	6.4m	2.4	50m	500m	50m	60	5.0u	5.0u	5C		F006	MP34a
28	MIVR42050-264	26			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
29	MIVR42051-263	26 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
30	853V27	27 ♦			40	4.0	1.6	500m	10m	6.4m	3.1	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
31	809V28	28			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
32	853V28	28 ♦			40	4.0	1.6	500m	10m	6.4m	3.2	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
33	859V28	28 ♦			40	2.0	1.6	1.0	1.0	60mΔ§		30m	500m	1.5	34			5C			MP34e
34	803V28	28			40	4.0	1.8	500m	10m	6.4m	3.4	50m	500m	50m	60	5.0u	5.0u	5C		F005	MP34
35	MIVR42050-284	28			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
36	MIVR42051-283	28 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
37	LMR3	29	8.0	50	60	3.0	25	2.0		50mΔ	2.2	500m	1.0	500m	40			5C		F074	CN22c
38	MIVR42050-304	30			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
39	MIVR42051-303	30 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
40	853V32	32 ♦			40	4.0	1.6	500m	10k	6.4	3.6	50m	500m	50m	60	5.0u	5.0u	5C		F012	MP34b
41	803V32	32			40	4.0	1.8	500m	10k	6.4	3.8	50m	500m	50m	60	5.0u	5.0u	5C		F005	MP34
42	MIVR42050-324	32			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
43	MIVR42051-323	32 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
44	MIVR42050-344	34			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
45	MIVR42051-343	34 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
46	MIVR42050-364	36			44		120	4.0		50mΔ	40	100m	4.0	200m	60			$F			TO3
47	MIVR42051-363	36 ♦			44		120	3.0		50mΔ	40	100m	5.0	200m	60			$F			TO3
48	807V36	36			150	6.0	1.6	150m	30m	15mΔ	3.0	50m	150	50m	50	5.0	5.0	5C		F044	MP34e
49#	MT104-883	40 ♦	39	41	50		500m				8.0	5.0mΔ	20m	5.0mΔ				5C			CN10e
50#	S1027	42 ♦	25	60	70	2.9	25	5.0	5.0m	30mΔ		2.0mΔ			63			2B		F086	MP235
51#	S1028	42 ♦	25	60	70	2.9	25	5.0	5.0m	20mΔ		2.0mΔ			63			2B		F086	MP235
52#	S1019	45 ♦	30	60	70	3.0	10	2.0	5.0m	30mΔ		1.6mΔ			63			28		F086	MP234
53#	S1020	45 ♦	30	60	70	3.0	10	2.0	5.0m	30mΔ		1.6mΔ			63			28		F086	MP234
54	807V48	48			150	6.0	1.6	150m	30m	15mΔ	5.0	50m	150	50m	50	5.0	5.0	5C		F044	MP34e
55	808V60	60			150	6.0	1.6	150m	50m	15mΔ	6.0	50m	150	50m	50	5.0	5.0	5C		F044	MP34e
56	808V100	100			150	6.0	1.6	150m	50m	15mΔ	10	50m	150	50m	50	5.0	5.0	5C		F044	MP34e

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE 3 DRFT (V/°C)	4 OFFSET (V)	MAX CURRENT OFFSET (A)	BIAS (A)	@25°C MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	NEG (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	RESP. TIME (s)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	LM139D	5.0	10m		5.0m§	25n	100n	1.5 §					6.0m	106 †	1.3u†	5C	G036	MP148
2	LM139F	5.0	10m		5.0m§	25n	100n	1.5 §					6.0m	106 †	1.3u†	5C	G036	FP29
3	LM239D	5.0	10m		5.0m§	50n	250n	1.5 §					6.0m	106 †	1.3u†	28	G036	MP148
4	LM339D	5.0	10m		5.0m§	50n	250n	1.5 §					6.0m	106 †	1.3u†	07	G036	MP148
5	LM339N	5.0	10m		5.0m§	50n	250n	1.5 §					6.0m	106 †	1.3u†	07	G036	MP39
6▼	SG139J*	5.0	10m		9.0m§	100n	300n	3.5 §					6.0m	106 †	1.3u†	5C	G036	TO116
7▼	SG239J*	5.0	10m		9.0m§	150n	400n	3.5 §					6.0m	106 †	1.3u†	28	G036	TO116
8▼	SG239N*	5.0	10m		9.0m§	150n	400n	3.5 §					6.0m	106 †	1.3u†	28	G036	MP39a
9▼	SG339J*	5.0	10m		9.0m§	150n	400n	3.5 §					6.0m	106 †	1.3u†	07	G036	TO116
10▼	SG339N*	5.0	10m		9.0m§	150n	400n	3.5 §					6.0m	106 †	1.3u†	07	G036	MP39a
11	NE526A	10	120m		5.0m	5.0u	35u	7.4 §		2.8	400m		16m	70 †	17 *	07	G009	TO116
12	NE526G	10	120m		5.0m	5.0u	35u	7.4 §		2.8	400m		16m	70 †	17 *	07	G009	TO91
13	NE526K	10	120m		5.0m	5.0u	35u	7.4 §		2.8	400m		16m	70 †	17 *	07	G009	TO99
14	NE526Q	10	120m		5.0m	5.0u	35u	7.4 §		3.5	500m§Δ		16m		15nt*	07	G009	MP☑
15	SE526A	10	120m		5.0m	5.0u	35u	7.4 §		3.5	500m§Δ		16m		15nt*	5C	G009	MP☑
16	SE526G	10	120m		5.0m	5.0u	35u	7.4 §		2.8	400m		16m	70 †	17 *	5C	G009	TO91
17	SE526K	10	120m		5.0m	5.0u	35u	7.4 §		2.8	400m		16m	70 †	17 *	5C	G009	TO99
18	SE526Q	10	120m		5.0m	5.0u	35u	7.4 §		3.5	500m§Δ		16m		15nt*	5C	G009	MP☑
19	NE521A*	10	390m		10m	12u	40u	6.0	100u	2.7	500m§Δ	280		74		07	G042	MP153
20▼	NE521F	10	390m		10m	12u	40u	6.0	100u	2.7	500m§Δ	280		74		07	G042	MP153
21	NE522A*	10	390m		10m	12u	40u	6.0	100u	500m		280		74		07	G043	MP153
22▼	NE522F	10	390m		10m	12u	40u	6.0	100u	500m		280		74		07	G043	MP153
23▼	AM685DL	11 §	267m	10u	2.5m	1.3u	13u	3.3		960mØ	1.8				4.5n	38	G044	MP230
24▼	AM685HL	11 §	267m	10u	2.5m	1.3u	13u	3.3		960mØ	1.8				4.5n	38	G044	TO100
25▼	AM685DM	11 §	267m	10u	3.0m	1.6u	16u	3.3		960mØ	1.8				4.5n	5C	G044	MP230
26▼	AM685HM	11 §	267m	10u	3.0m	1.6u	16u	3.3		960mØ	1.8				4.5n	5C	G044	TO100
27	uA760DM	13	312m	3.0u†	6.0m	7.5u	60u	8.0		2.4	400m§Δ	100 †	3.2m		30n	5C	G027a	TO116
28	uA760HM	13	312m	3.0u†	6.0m	7.5u	60u	8.0		2.4	400m§Δ	100 †	3.2m		30n	5C	G027	TO99
29	LM160D	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	5C	G040	MP148
30	LM160F	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	5C	G040	FP6j
31	LM260D	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	28	G040	MP148
32	LM260H	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	28	G040	TO99
33	LM360D	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	07	G040	MP148
34	LM360H	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	07	G040	TO99
35	LM360N	13	312m	5.0u†	1.0m†	500n†	5.0u†	8.0				100 †	6.4m		16n†	07	G040	MP39n
36	uA760DC	13	325m	3.0u†	6.0m§	7.5u§	60u§	8.0		2.4	400m§Δ	100 †	3.2m		30n	07	G027a	TO116
37	uA760HC	13	325m	3.0u†	6.0m§	7.5u§	60u§	8.0		2.4	400m§Δ	100 †	3.2m		30n	07	G027	TO99
38#	SFC2525EM	15					75u									5C		MP117
39	LM139AD	15 §	30m		2.0m§	25n§	100n§	13 §					6.0m	106 †	1.3u†	5C	G036	MP148
40	LM139AF	15 §	30m		2.0m§	25n§	100n§	13 §					6.0m	106 †	1.3u†	5C	G036	FP6j
41	LM239AD	15 §	30m		2.0m§	50n§	250n§	13 §					6.0m	106 †	1.3u†	07	G036	MP148
42	LM339AN	15 §	30m		2.0m§	50n§	250n§	13 §					6.0m	106 †	1.3u†	07	G036	MP39n
43▼	SG139AJ*	15 §	30m		9.0m§	100n	300n	13 §					6.0m	106 †	1.3u†	5C	G036	TO116
44▼	SG239AJ*	15 §	30m		9.0m§	150n	400n	13 §					6.0m	106 †	1.3u†	28	G036	TO116
45▼	SG239AN*	15 §	30m		9.0m§	150n	400n	13 §					6.0m	106 †	1.3u†	28	G036	MP39a
46▼	SG339AJ*	15 §	30m		9.0m§	150n	400n	13 §					6.0m	106 †	1.3u†	07	G036	TO116
47▼	SG339AN*	15 §	30m		9.0m§	150n	400n	13 §					6.0m	106 †	1.3u†	07	G036	MP39a
48	MC3302P*	15 §	225m		40m	3.0n§†	1.0u	30			150m†		20mΔ	66		48	G032	TO116
49#	SFC2524EM	16					75u									5C		MP117
50	LM760CD	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	07		MP148
51	LM760CH	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	07		TO99
52	LM760CN	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	07		MP39n
53	LM760D	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	5C		MP148
54	LM760F	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	5C		FP6j
55	LM760H	16	312m	8.0u	5.0m	3.0u	20u	8.0		2.4	250m†	100 †	20mΔ	70	14n†	5C		TO99
56▼	SN72710FA	18 §	88m†	7.5u†	10m	25u	150u	10		2.5	1.0	200 †	5.0m	57	40n†	07	G001	FP2t
57	SN72710J	18 §	88m†	7.5u†	10m	25u	150u	10		2.5	1.0	200 †		56	40n†	07	G001	MP139
58	SN72710L	18 §	88m†	7.5u†	10m	25u	150u	10		2.5	1.0	200 †		56	40n†	07	G001	TO99
59	SN72710N	18 §	88m†	7.5u†	10m	25u	150u	10		2.5	1.0	200 †		56	40n†	07	G001	MP39h
60▼	SN72710P	18 §	88m†	7.5u†	10m	25u	150u	10		2.5	1.0	200 †	5.0m	57	40n†	07	G001	MP267
61#	SFC2710M	18 §	90m		600u§†	750n§†	13u§†			3.2 †		500m†	200m†	65 †	40u†	5C	G001	TO99
62#	SFC2710C	18 §	90m		1.6m§†	1.8u§†	16u§†			3.2 †		500m†	200m†	64 †	40u†	07	G001	TO99
63▼	SN52811FA	18 §	94m†	5.0u	4.5m	5.0u	30u	10	2.5m	2.5	1.0	200 †	5.0m	82	33n†	5C	G029	FP2t
64▼	SN72811FA	18 §	94m†	5.0u	6.0m	10u	50u	10	2.5m	2.5	1.0	200 †	5.0m	80	33n†	07	G029	FP2t
65#	SFC2711CØ	18 §	130m		1.0m§†	500n§†	25u§†			4.5 †		500m†	200m†	64 †	40u†	07	G006	TO100
66#	SFC2711MØ	18 §	130m		1.0m§†	500n§†	25u§†			4.5 †		500m†	200m†	64 †	40u†	5C	G006	TO100
67▼	SN52711FA	18 §	130m†	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	5.0m	56	40n†	5C	G006	FP2t
68▼	SN72711FA	18 §	130m†	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	5.0m	57	40n†	07	G006	FP2t
69	MCC1710	18 §	150m	3.0u†	2.0m§		20u§	14 Δ		2.5	1.0	200 †	2.0m		40n†	5C	G001	FC10
70♦	MC1710F	18 §♦	150m	3.0u†§	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40n†	5C	G033	TO91
71♦	MC1710G	18 §♦	150m	3.0u†§	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40n†	5C	G033	CN1k
72♦	MC1710L	18 §♦	150m	3.0u†§	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40n†	5C	G033	TO116
73	MCC1710C	18 §	150m	3.0u†	5.0m§		25u§	14 Δ		2.5	1.0	200 †	2.0m		40n†	5C	G001	FC10
74	N5710A	18 §	150m	3.5u†☑	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	TO116
75	N5710G	18 §	150m	3.5u†☑	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	TO91
76	N5710T	18 §	150m	3.5u†☑	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40u†	07	G001	TO99
77	RM710AD	18 §♦	150m	5.0u	1.5m	5.0u	28u	10		2.5	1.0	200 †	2.0m	63	40n†	5C	G001	MP40
78	RM710AQ	18 §♦	150m	5.0u	1.5m	5.0u	28u	10		2.5	1.0	200 †	2.0m	63	40n†	5C	G001	FP2k
79	RM710AT	18 §♦	150m	5.0u	1.5m	5.0u	28u	10		2.5	1.0	200 †	2.0m	63	40n†	5C	G001	TO99
80	RM711AD	18	150m	5.0u	2.0m	3.0u	30u	10	2.5m	2.5	1.0	200	680m	63	40n	5C	G006	FP2k
81	RM711AT*	18 §♦	150m	5.0u	2.0m	3.0u	30u	10	2.5m	2.5	1.0	200 †	680m	63	40n†	5C	G006	TO100
82	SN52811J	18 §♦	150m	5.0u†	4.5m	5.0u	30u	10	2.5m	2.5	0.0	200 †	500u	80	33n†	07	G029	MP139
83	SN52811L	18 §♦	150m	5.0u†	4.5m	5.0u	30u	10	2.5m	2.5	0.0	200 †	500u	82	33n†	5C	G029	TO100
84♦	MC1710CF	18 §♦	150m	5.0u†§	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G033	TO91
85♦	MC1710CG	18 §♦	150m	5.0u†§	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G033	CN1k
86♦	MC1710CL	18 §♦	150m	5.0u†§	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G033	TO116
87♦	MC1710CP	18 §♦	150m	5.0u†§	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n†	07	G033	MP307
88♦	JANM38510/10301ACA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
89♦	JANM38510/10301ACB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
90♦	JANM38510/10301ACC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
91♦	JANM38510/10301AGA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
92♦	JANM38510/10301AGB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
93♦	JANM38510/10301AGC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
94♦	JANM38510/10301AHA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
95♦	JANM38510/10301AHB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
96♦	JANM38510/10301AHC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
97♦	JANM38510/10301BCA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
98♦	JANM38510/10301BCB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX. VOLTAGE 3 DRFT (V/°C)	4 OFSET (V)	MAX CURRENT OFFSET (A)	BIAS (A)	@25°C MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	NEG (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	RESP. TIME (s)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1♦	JANM38510/10301BCC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
2♦	JANM38510/10301BGA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
3♦	JANM38510/10301BGB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
4♦	JANM38510/10301BGC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
5♦	JANM38510/10301BHA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
6♦	JANM38510/10301BHB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
7♦	JANM38510/10301BHC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
8♦	JANM38510/10301CCA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
9♦	JANM38510/10301CCB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
10♦	JANM38510/10301CCC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048a	MP315
11♦	JANM38510/10301CGA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
12♦	JANM38510/10301CGB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
13♦	JANM38510/10301CGC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048	CN1k
14♦	JANM38510/10301CHA	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
15♦	JANM38510/10301CHB	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
16♦	JANM38510/10301CHC	18 §	150m	10u	2.0m§	3.0u§	20u§	14 Δ		2.5	1.0		2.0m	61	60n	5C	G048b	FP31
17	710-1-5B	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	TO99
18	710BE	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	CN1a
19	710BH	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	FP5
20	LM710H	18 §	150m	10u	3.0m	7.0u☑	45u☑	10		2.5	1.0	200 †	2.0m	63	40ns	5C	G001	TO99
21	MIC710-1B	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40us	5C	G001	FP2b
22	MIC710-1C	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40us	5C	G001	CN1a
23	RM710D	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G001	MP40
24	RM710Q	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G001	FP2k
25	RM710T	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G001	TO99
26	S5710G	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	80	40us	5C	G001	TO91
27	S5710T	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	80	40us	5C	G001	TO99
28#	SFC2710EM	18 §	150m	10u☑	3.0m	7.0u	45u☑	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	TO116
29#	SFC2710PM	18 §	150m	10u☑	3.0m	7.0u☑	45u☑	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	TO91
30	SG710T	18 §	150m	10u§	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	63	40ns	5C	G001	TO99
31▼	SN52510FA	18 §	150m	10u☑	3.0m	3.0u☑	25u☑	10	2.5m	5.0	1.0	200 †	5.0m	82	30ns	5C	G024	FP2t
32	SN52510J	18 §♦	150m	10u	3.0m	7.0u	25u	10	2.5m	2.5	0.0	200 †	2.0m	82	30ns	5C	G024	MP139
33▼	SN52510JP	18 §	150m	10u☑	3.0m	3.0u☑	25u☑	10	2.5m	5.0	1.0	200 †	5.0m	82	30ns	5C	G024	MP383
34	SN52510L	18 §♦	150m	10u	3.0m	7.0u	25u	10	2.5m	2.5	0.0	200 †	2.0m	82	30ns	5C	G024	TO99
35	SN52514J	18 §♦	150m	10u	3.0m	7.0u	25u	10	2.5m	2.5	0.0	200 †	2.0m	82	30ns	5C	G025	MP139
36▼	SN52810FA	18 §	150m	10u☑	3.0m	3.0u☑	25u☑	10		2.5	1.0	200 †	5.0m	82	30ns	5C	G028	FP2t
37	SN52810J	18 §♦	150m	10u	3.0m	7.0u	25u	10		2.5	0.0	200 †	2.0m	82	30ns	5C	G028	MP139
38▼	SN52810JP	18 §	150m	10u☑	3.0m	3.0u☑	25u☑	10		2.5	1.0	200 †	5.0m	82	30ns	5C	G028	MP383
39	SN52810L	18 §♦	150m	10u	3.0m	7.0u	25u	10		2.5	0.0	200 †	2.0m	82	30ns	5C	G028	TO99
40	SN52820J	18 §♦	150m	10u	3.0m	7.0u	25u	10		2.5	0.0	200 †	2.0m	82	30ns	5C	G028a	MP139
41	TDC1710F	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40us	5C	G001	TO91
42	TDC1710V	18 §♦	150m	10u	3.0m	7.0u	45u	10		2.5	0.0	200 †	2.0m	62	40ns	5C	G001	TO99
43	uA710A	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G047	MP☑
44	uA710DM	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	79	40ns	5C	G001	TO116
45	uA710FM	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	79	40ns	5C	G001	TO91
46	uA710HM	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	79	40ns	5C	G001	TO99
47	uA710Q	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G047	MP☑
48	uA710T	18 §	150m	10u	3.0m	7.0u	45u	10		2.5	1.0	200 †	2.0m	62	40ns	5C	G047	CN1g
49	SG711T	18 §	150m	10u§	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40ns	5C	G006	TO100
50	MCB1710F	18	150m	11u§	2.0m§		20u§	14		2.5	0.0	200 †	2.0m		40ns	5C	G033	TO91
51	MCBC1710	18	150m	11u§	2.0m§		20u§	14		2.5	0.0	200 †	2.0m		40ns	5C	G033	FC22
52▼	SN72510FA	18 §	150m	20u☑	4.5m	7.5u☑	30u☑	10	2.5m	5.0	1.0	200 †	5.0m	80	30ns	07	G024	FP2t
53	SN72510J	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G024	MP139
54	SN72510L	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G024	TO99
55	SN72510N	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G024	MP39h
56	SN72510P	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G024	MP267
57	SN72514J	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G025	MP139
58	SN72514N	18 §♦	150m	20u	4.5m	7.5u	30u	10	2.5m	2.5	0.0	200 †	1.6m	80	30ns	07	G025	MP39h
59▼	SN72810FA	18 §	150m	20u☑	4.5m	7.5u☑	30u☑	10		2.5	1.0	200 †	5.0m	80	30ns	07	G028	FP2t
60	SN72810J	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028	MP139
61	SN72810L	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028	TO99
62	SN72810N	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028	MP39h
63	SN72810P	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028	MP267
64	SN72820J	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028a	MP139
65	SN72820N	18 §♦	150m	20u	4.5m	7.5u	30u	10		2.5	0.0	200 †	1.6m	80	30ns	07	G028a	MP39h
66	SG710CT	18 §	150m	20u§	5.0m§	7.5u	25u§	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP39a
67	710-9-5B	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	TO99
68	710-93-6E	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	MP39
69	710CE	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40ns	07	G001	CN1a
70	LM710CH	18 §	150m	20u	6.5m	7.5u	40u☑	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	TO99
71	LM710CN	18 §	150m	20u	6.5m	7.5u	40u☑	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP39n
72	MIC710-5B	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	FP2b
73	MIC710-5C	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	CN1a
74	RC710D	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP40
75	RC710DN	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP48
76	RC710DP	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP40
77	RC710Q	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	FP2k
78	RC710T	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	TO99
79#	SFC2710E	18	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200	1.6m	60	40n	07	G001	TO116
80#	SFC2710EC	18 §	150m	20u	6.5m	7.5u	40u☑	10		2.5	0.0	200 †	1.6m	60	40ns	07	G001	TO116
81#	SFC2710PC	18 §	150m	20u	6.5m	7.5u	40u☑	10		2.5	0.0	200 †	1.6m	60	40ns	07	G001	TO91
82	SG710CN	18 §	150m	20u§	6.5m	5.0u§	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	MP39a
83	TDC1710J	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	TO116
84	TDC2710F	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	TO91
85	TDC2710J	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	TO116
86	TDC2710V	18 §♦	150m	20u	6.5m	7.5u	40u	10		2.5	0.0	200 †	1.6m	60	40us	07	G001	TO99
87	uA710CA	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G047	MP☑
88	uA710CQ	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G047	MP☑
89	uA710CT	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G047	CN1g
90	uA710DC	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	TO116
91	uA710HC	18 §	150m	20u	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40ns	07	G001	TO99
92	SG711CT	18 §	150m	20u§	7.5m§	15u§	100u§	10	2.5m	2.5	1.0	200 †	500u	63	40ns	5C	G006	TO100
93	SG711CN	18 §	150m	20u§	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	54	40ns	07	G006	MP39a
94	LM710AH	18 §♦	160m	10u	3.0m	3.0u	45u	10		2.5	0.0	2.0 †	2.0m	62	40us	5C	G001	CN1c

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE 3 DRFT (V/°C)	4 OFFSET (V)	MAX CURRENT OFFSET (A)	BIAS (A)	@25°C MIN CM STROBE RANGE (ΔV)	CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	NEG (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	RESP. TIME (s)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO
1#	MT710A	18 §♦	160m	10u	3.0m	7.0u☑	45u☑	10		2.5	1.0	200 †	2.0m	61	40n†	5C	G001	CN1c
2#	MT710C	18 §♦	170m	20u	6.5m	7.5u	40u☑	10		2.5	1.0	200 †	1.6m	60	40n†	07	G001	CN1c
3▼	SN52710FA	18 §	175m	5.0u†	6.0m	20u	150u	10		2.5	1.0	200 †	5.0m	56	40n†	5C	G001	FP2t
4	SN52710J	18 §	175m	5.0u†	6.0m	20u	150u	10		2.5	1.0	200 †	1.6m	57	40n†	5C	G001	MP139
5▼	SN52710JP	18 §	175m	5.0u†	6.0m	20u	150u	10		2.5	1.0	200 †	5.0m	56	40n†	5C	G001	MP383
6	SN52710L	18 §	175m	5.0u†	6.0m	20u	150u	10		2.5	1.0	200 †	1.6m	57	40n†	5C	G001	TO99
7	SN72720JØ	18 §♦	176m†	7.5u†	10m	25u	150u	10		2.5	0.0	200 †	1.6m†	54	40n†	07	G001	MP139
8	SN72720NØ	18 §♦	176m†	7.5u†	10m	25u	150u	10		2.5	0.0	200 †	1.6m†	56	40n†	07	G001	MP39h
9	RM711D*	18 §♦	180m	10u	6.0m	14u	150u	10	2.5m	2.5	1.0	200 †	680u	57	40n†	5C	G006	MP40
10	RM711Q*	18 §♦	180m	10u	6.0m	14u	150u	10	2.5m	2.5	1.0	200 †	680u	57	40n†	5C	G006	FP2k
11	RM711T*	18 §♦	180m	10u	6.0m	14u	150u	10	2.5m	2.5	1.0	200 †	680u	57	40n†	5C	G006	TO100
12	RC711D*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	07	G006	MP40
13	RC711DP	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	07	G006	MP40
14	RC711Q*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	07	G006	FP2k
15	RC711T*	18 §♦	180m	20u	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	1.6m	57	40n†	07	G006	TO100
16	MCC1711*	18 §	200m	5.0u†	3.5m§		75u§	14 Δ	2.5m	2.5	1.0	200 †	500u		40n†	5C	G006	FC11
17	uA711A	18 §	200m	5.0u†	4.5m	20u	150u	10	2.5m	2.5	1.0	200 †	500m	57	40n†	5C	G006	MP☑
18	uA711K	18 §	200m	5.0u†	4.5m	20u	150u	10	2.5m	2.5	1.0	200 †	500m	57	40n†	5C	G006	TO100
19	MCC1711C*	18 §	200m	5.0u†	5.0m§		100u§	14 Δ	2.5m	2.5	1.0	200 †	500u		40n†	5C	G006	FC11
20	711BEØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	1.2m	2.5	500m†	200 †	500u	58	40u†	5C	G006	CN17c
21▼	711BHØ	18	200m	5.0u	6.0m	20u	150u	10	1.2m	2.5	500m	200	500u	58	40u	5C	G006	TO91
22▼	711BNØ	18	200m	5.0u	6.0m	20u	150u	10	1.2m	2.5	500m	200	500u	58	40u	5C	G006	TO116
23	LM711AHØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	CN17c
24	LM711HØ	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	58	40n†	5C	G029	CN8
25♦	MC1711F	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	58	40n†	5C	G006	CN10c
26♦	MC1711G	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	58	40n†	5C	G006	TO100
27▼	MC1711LØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	5C	G006	TO116
28	MIC711-1BØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	FP2b
29	MIC711-1CØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO100
30#	MT711*	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	5C	G006	CN10e
31#	SFC2711EMØ	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	64 †	40n†	5C	G006	TO116
32#	SFC2711PMØ	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	64 †	40n†	5C	G006	TO91
33	SN52711JØ	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40 †	5C	G006	MP139
34	SN52711LØ	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40 †	5C	G006	TO99
35	SN72811J	18 §♦	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	0.0	200 †	500u	80	33n†	07	G029	MP139
36	SN72811L	18 §♦	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	0.0	200 †	500u	80	33n†	07	G029	TO100
37	SN72811N	18 §♦	200m	5.0u†	6.0m	10u	50u	10	2.5m	2.5	0.0	200 †	500u	80	33n†	07	G029	MP39h
38	TDC1711FØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO91
39	TDC1711J	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO116
40	TDC1711VØ	18 §♦	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO100
41	uA711CA	18 §	200m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500m	57	40n†	07	G006	MP☑
42	uA711CK	18 §	200m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500m	57	40n†	07	G006	TO100
43	uA711DM*	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	TO116
44	uA711FM*	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	TO91
45	uA711HM*	18 §	200m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	1.0	200 †	500u	58	40n†	5C	G006	TO100
46♦	MC1711CFØ	18 §♦	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	TO91
47♦	MC1711CGØ	18 §♦	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	TO100
48▼	MC1711CLØ	18 §♦	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	TO116
49♦	MC1711CPØ	18 §♦	200m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G006	MP307
50	N5711AØ	18 §	200m	5.0u†	10m	25u	150u	10	2.5m	5.0	1.0	200 †	500u	57	40u†	07	G006	TO116
51	N5711KØ	18 §	200m	5.0u†	10m	25u	150u	10	2.5m	5.0	1.0	200 †	500u	57	40u†	07	G006	TO100
52	S5711KØ	18 §	200m	5.0u†	10m	20u	150u	10	2.5m	5.0	1.0	200 †	500u	58	40u†	5C	G006	TO100
53▼	JANM38510/10302ACA	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	MP315
54▼	JANM38510/10302ACB	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	MP315
55▼	JANM38510/10302ACC	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	MP315
56♦	JANM38510/10302AHAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
57♦	JANM38510/10302AHBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
58♦	JANM38510/10302AHCØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
59♦	JANM38510/10302AIAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
60♦	JANM38510/10302AIBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
61♦	JANM38510/10302AICØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
62♦	JANM38510/10302BCAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
63♦	JANM38510/10302BCBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
64♦	JANM38510/10302BCCØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
65♦	JANM38510/10302BHAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
66♦	JANM38510/10302BHBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
67♦	JANM38510/10302BHCØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
68♦	JANM38510/10302BIAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
69♦	JANM38510/10302BIBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
70♦	JANM38510/10302BICØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
71♦	JANM38510/10302CCAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
72♦	JANM38510/10302CCBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
73♦	JANM38510/10302CCCØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049a	FP24a
74♦	JANM38510/10302CHAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
75♦	JANM38510/10302CHBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
76♦	JANM38510/10302CHCØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049b	FP2r
77♦	JANM38510/10302CIAØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
78♦	JANM38510/10302CIBØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
79♦	JANM38510/10302CICØ	18 §	205m	10u	3.5m§	10u§	75u§	14 Δ	2.5m	2.5	1.0		500u	57	60n	5C	G049	CN10e
80	TDC6711JØ*	18 §♦	220m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	500u	58	40u†	5C	G007	TO116
81	LM711CHØ	18 §♦	230m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G029	MP39n
82	LM711CNØ	18 §♦	230m	5.0u†	6.0m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	57	40n†	07	G029	CN8
83#	MT711C*	18 §♦	230m	5.0u†	6.0m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	56	40n†	07	G006	CN10e

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	5 TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE MAX. VOLTAGE 3 DRFT (V/°C)	4 OFSET (V)	MAX CURRENT OFFSET (A)	BIAS (A)	@25°C MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	NEG (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	RESP. TIME (s)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1#	711-9-6E	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	57	40 †	07		TO116
2	711CEØ	18 §♦	230m	5.0u†	10m	25u	150u	10	1.2m	2.5	500m†	200 †	500u	57	40u†	07	G006	CN17c
3▼	711CJØ	18	230m	5.0u	10m	25u	150u	10	1.2m	2.5	500m	200	500u	57	40u	07	G006	TO116
4	MIC711-5BØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	500m	200 †	500u	57	40u†	07	G006	FP2b
5	MIC711-5CØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	500m	200 †	500u	57	40u†	07	G006	TO100
6#	SFC2711EØ	18	230m	5.0u	10m	25u	150u	10	2.5m	2.5	0.0	200	500u		40n	07	G006	TO116
7#	SFC2711ECØ	18 §	230m	5.0u†	10m	2.5u	150u	10		2.5	0.0	200 †	500u	64 †	40n†	07	G006	TO116
8#	SFC2711PCØ	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	64 †	40n	07	G006	TO91
9	SN72711JØ	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	MP139
10	SN72711LØ	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	TO99
11	SN72711NØ	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	1.0	200 †	500u	56	40 †	5C	G006	MP39h
12	TDC2711FØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	5C	G006	TO91
13	TDC2711JØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	5C	G006	TO116
14	TDC2711VØ	18 §♦	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	5C	G006	TO100
15	uA711DC*	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	07	G006	TO116
16	uA711HC*	18 §	230m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	1.0	200 †	500u	57	40n†	07	G006	TO100
17	TDC7711JØ*	18 §♦	250m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	07	G007	TO116
18	LM1514JØ	18 §	300m	3.0u†	3.0m	7.0u☑	20u§	10	2.5m	2.5	1.0	200 †	2.8m	61	30n†	5C	G038	MP319
19▼	MC1514F*	18 §	300m	3.0u§†	3.0m	7.0u	45u	10	2.5m	2.5	1.0	200 †	2.8m	60		5C	G012	FP24b
20♦	MC1514L*	18 §	300m	3.0u§†	3.0m	3.0u§	20u§	10		2.5	1.0	200 †	2.8m	62	40n†	5C	G012	TO116
21	RM1514D	18 §	300m	3.0u†	3.0m	7.0m	45u	10		2.5	1.0	200 †	2.8m	63	40n†	5C	G012	MP322
22	TDC4711FØ	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	5.0	58	40u†	5C	G006	TO91
23	TDC4711JØ	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	5.0m	58	40u†	5C	G006	TO116
24	TDC4711VØ	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	5.0	58	40u†	5C	G006	TO100
25	TDC8711JØ*	18 §♦	300m	5.0u†	6.0m	20u	150u	10	2.5m	4.5 †	0.0	200 †	5.0m	58	40u†	07	G007	TO116
26	TSC1711F	18	300m	5.0u	6.0m	20u	150u	10	2.5m	2.5	0.0	300	500u	53	40n	5C	G006	TO91
27	TSC1711J	18	300m	5.0u	6.0m	20u	150u	10	2.5m	2.5	0.0	300	500u	53	40n	5C	G006	TO116
28	TSC1711V	18	300m	5.0u	6.0m	20u	150u	10	2.5m	2.5	0.0	300	500u	53	40n	5C	G006	TO100
29	LM1414JØ	18 §	300m	5.0u†	6.5m	7.5u☑	25u§	10	2.5m	2.5	1.0	200 †	1.6m	60	30n†	07	G038	MP319
30	LM1414NØ	18 §	300m	5.0u†	6.5m	7.5u☑	25u§	10	2.5m	2.5	1.0	200 †	1.6m	60	30n†	07	G038	MP39
31▼	MC1414F*	18 §	300m	5.0u§†	6.5m	7.5u	40u	10	2.5m	2.5	1.0	200 †	1.6m	60	6.0n†	07	G012	FP24b
32♦	MC1414L*	18 §	300m	5.0u§†	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n	07	G012	TO116
33♦	MC1414P*	18 §	300m	5.0u§†	6.5m	7.5u	40u	10		2.5	1.0	200 †	1.6m	60	40n	07	G012	MP307
34	RC1414D	18	300m	5.0u	6.5m	7.5u	40u	10		2.5	1.0	200	1.6m	60	40n	07	G012	MP40
35	RC1414DP	18	300m	5.0u	6.5m	7.5u	40u	10		2.5	1.0	200	1.6m	60	40n	07	G012	TO116
36	TDC5711FØ	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	07	G006	TO91
37	TDC5711JØ	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	500u	57	40u†	07	G006	TO116
38	TDC5711VØ	18 §♦	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	5.0m	57	40u†	07	G006	TO100
39	TDC9711JØ*	18 ♦§	300m	5.0u†	10m	25u	150u	10	2.5m	4.5 †	0.0	200 †	2.6m	57	40u†	07	G007	TO116
40	TSC2711F	18	300m	5.0u	10m	25u	150u	10	2.5m	4.5	0.0	300	500u	53	40n	07	G006	TO91
41	TSC2711J	18	300m	5.0u	10m	25u	150u	10	2.5m	4.5	0.0	300	500u	53	40n	07	G006	TO116
42	TSC2711V	18	300m	5.0u	10m	25u	150u	10	2.5m	4.5	0.0	300	500m	53	40n	07	G006	TO100
43	TSC1225F	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	5C		TO91
44	TSC1225J	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	5C		TO116
45	TSC1225V	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	5C		TO100
46	TSC2225F	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	07		TO91
47	TSC2225J	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	07		TO116
48	TSC2225V	18	300m	10u	3.5m	10u	75u	10	1.5m	2.5	0.0	300	10m	80	60n	07		TO100
49	TSC4711F	18	300m	10u	6.0m	10u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	5C	G006	TO91
50	TSC4711J	18	300m	10u	6.0m	10u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	5C	G006	TO116
51	TSC4711V	18	300m	10u	6.0m	10u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	5C	G006	TO100
52	TSC5711F	18	300m	10u	6.0m	15u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	07	G006	TO91
53	TSC5711J	18	300m	10u	6.0m	15u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	07	G006	TO116
54	TSC5711V	18	300m	10u	6.0m	15u	150u	10	2.5m	2.5	0.0	300	5.0m	73	40n	07	G006	TO100
55	TSC3225F	18	300m	20u	5.0m	15u	100u	10	1.5m	2.5	0.0	300	10m	73	100n	07		TO91
56	TSC3225J	18	300m	20u	5.0m	15u	100u	10	1.5m	2.5	0.0	300	10m	73	100n	07		TO116
57	TSC3225V	18	300m	20u	5.0m	15u	100u	10	1.5m	2.5	0.0	300	10m	73	100n	07		TO100
58	SE527K	20	112m		6.0m	1.0u	4.0u	12 Δ	2.0m	2.5	500m§Δ		-40m	74	14n†	5C	G045	TO100
59	SE529K	20	112m		6.0m	9.0u	36u	12 Δ	2.0m	2.5	500m§Δ		-40m	74	10n†	5C	G046	TO100
60	NE527K	20	150m		10m	1.0u	4.0u	12 Δ	2.0m	2.7	500m§Δ		-40m	74	14n†	07	G045	TO100
61	NE529K	20	150m		10m	15u	50u	12 Δ	2.0m	2.7	500m§Δ		-40m	74	10n†	07	G046	TO100
62	LM161D	20	320m		1.0m†§	9.0u	36u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		5C	G039	MP148
63	LM161F	20	320m		1.0m†§	9.0u	36u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		5C	G039	FP6j
64	LM261D	20	320m		1.0m†§	9.0u	36u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		28	G039	MP148
65	LM261H	20	320m		1.0m†§	9.0u	36u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		28	G039	TO99
66	LM361D	20	400m		1.0m†§	15u	50u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		07	G039	MP148
67	LM361N	20	400m		1.0m†§	15u	50u	12 Δ	200u	2.4	.40 Δ		6.4m	72 †		07	G039	MP39n
68#	MT710	21 §♦	150m	10u☑	3.0m	7.0u☑	45u☑	10		2.5	1.0	200 †	2.0m	61	40n†	5C	G001	CN1c
69#	711-1-5B	21	200m	5.0u†	6.0m	20u	150u	10	2.5m	2.5	0.0	200 †	500u	58	40u†	5C	G006	TO100
70#	711-9-5B	21	230m	5.0u†	10m	25u	150u	10	2.5m	2.5	0.0	200 †	500u	57	40u†	07	G006	TO100
71#	SL717A*	21 §	522m		3.0m	4.0u	15u	11 †§		790mØ	2.2 †			69	10n†	07	G019	CN27b
72#	SL717C*	21 §	544m		15m	15u	30u	11 †§		790mØ	2.2 †			66	10n†	07	G019	CN27b
73♦	JANM38510/10303AAA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
74♦	JANM38510/10303AAB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
75♦	JANM38510/10303AAC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
76♦	JANM38510/10303AGA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
77♦	JANM38510/10303AGB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
78♦	JANM38510/10303AGC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
79♦	JANM38510/10303BAA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
80♦	JANM38510/10303BAB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
81♦	JANM38510/10303BAC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
82♦	JANM38510/10303BGA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
83♦	JANM38510/10303BGB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
84♦	JANM38510/10303BGC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
85♦	JANM38510/10303CAA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
86♦	JANM38510/10303CAB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
87♦	JANM38510/10303CAC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005a	FP24
88♦	JANM38510/10303CGA	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
89♦	JANM38510/10303CGB	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
90♦	JANM38510/10303CGC	24	160m	10u	2.0m§	3.0u§	20u§	14 Δ	3.3m	2.5	1.5 Δ		100mΔ	89	60n	5C	G005	CN1k
91	LM106F883	24	160m	10u	3.0m	7.0u	45u	10	3.3m	2.5 †						5C		FP6f
92	LM106H883	24	160m	10u	3.0m	7.0u	45u	10	3.3m	2.5 †						5C		TO99

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER (3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE 3 DRFT (V/°C)	4 OFFSET (V)	MAX. VOLTAGE OFFSET (A)	MAX CURRENT BIAS (A)	@25°C MIN CM RANGE (ΔV)	STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	NEG (V)	MAX. OUT RES. (Ω)	MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	RESP. TIME (s)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO
1	LM306H	24 ♦	160m	20u	6.5m	7.5u	40u	10	3.3m	2.5				92 †	40n†	07	G005	TO99
2	LM306F	24	162m	10u	3.0m	7.0u	45u	10	3.3m	2.5	0.0	500m	100m	92 †	40n†	07	G005	FP2
3	AMLM106	24	163m	10u	3.0m	7.0u	45u	10	3.3m	2.5	.40 §Δ		16m	92 †	40n†	5C	G005	TO99
4	AMLM106F883	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	5C	G005	FP6f
5	AMLM106F	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	5C	G005	TO85
6	AMLM106H883	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	5C	G005	TO99
7	AMLM106H	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	5C	G005	TO99
8	AMLM206	24	163m	10u	3.0m	7.0u	45u	10	3.3m	2.5	.40 §Δ		16m	92 †	40n†	28	G005	TO99
9	AMLM206F	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	28	G005	FP2
10	AMLM206H	24 ♦	163m	10u	3.0m	7.0u☑	45u	10	3.3m	2.5			16m	32 †	40n†	28	G005	TO99
11	LM106F	24	163m	10u	3.0m	7.0u	45u	10	3.2m				16m	84	40n	5C	G005a	FP6j
12	LM106H	24	163m	10u	3.0m	7.0u	45u	10	3.2m				16m	84	40n	5C	G005	TO99
13	LM206F	24	163m	10u	3.0m	7.0u	45u	10	3.2m				16m	92	40n	28	G005a	FP6j
14	LM206H	24	163m	10u	3.0m	7.0u	45u	10	3.2m				16m	92	40n	28	G005	TO99
15▼	SN52106FA	24	163m	10u	3.0m	3.0u	45u	10	3.3m					92 †	40n	5C	G005a	FP22
16▼	SN52106J	24	163m	10u	3.0m	3.0u	45u	10	3.3m					92 †	40n	5C	G005b	TO116
17▼	SN52106JP	24	163m	10u	3.0m	3.0u	45u	10	3.3m					92 †	40n	5C	G005	MP383
18	SN52106L	24	163m	10u	3.0m	7.0u	45u	10	3.3m	2.5	0.0	500m	100m	92 †	25 †	5C	G005a	TO99
19	AMLM306	24	163m	20u	6.5m	7.5u	40u	10	3.3m	2.5	.40 §Δ		16m	92 †	40n†	07	G005	TO99
20	AMLM306F	24 ♦	163m	20u	6.5m	7.5u☑	40u	10	3.3m	2.5			16m	32 †	40n†	07	G005	FP2
21	AMLM306H	24 ♦	163m	20u	6.5m	7.5u☑	40u	10	3.3m	2.5			16m	32 †	40n†	07	G005	TO99
22▼	SN72306FA	24	163m	20u	6.5m	500n†	40u	10	3.3m					92 †	28n†	07	G005a	FP22
23▼	SN72306J	24	163m	20u	6.5m	500n†	40u	10	3.3m					92 †	28n†	07	G005b	TO116
24	SN72306L	24	163m	20u	6.5m	7.5u	40u	10	3.3m	2.5	0.0	500m	100m	92 †	40n†	07	G005	TO99
25▼	SN72306N	24	163m	20u	6.5m	500n†	40u	10	3.3m					92 †	28n†	07	G005b	MP39h
26	SN72306P	24	163m	20u	6.5m	7.5u	40u	10	3.3m	2.5	0.0	500m	100m	92 †	40n†	07	G005	MP267
27▼	SN52506FA	24	326m	10u	3.0m	3.0u	45n	10	3.3m	5.5	1.5 §Δ		100m	92 †	40n	5C	G005a	FP22
28	SN52506J	24	326m	10u	3.0m	3.0u§	45u	10	3.3m	2.5	1.5 §		100m		25n†	5C	G005b	MP139
29▼	SN72506FA	24	326m	20u	6.5m	500n†	40n	10	3.3m	5.5	2.0 §Δ		100m	92 †	28n†	07	G005a	FP22
30	SN72506J	24	326m	20u	6.5m	5.0u§	40u	10	3.3m	2.5	2.0 §		100m		25n†	07	G005b	MP139
31	SN72506N	24	326m	20u	6.5m	5.0u§	40u	10	3.3m	2.5	2.0 §		100m		25n†	07	G005b	MP39h
32	uA750DC*	24 §	432m		6.0m		5.0u	24 §Δ								07	G030	TO116
33	ICB8001C	30	30m†	3.0u†	6.0m	250n	500n	20		7.0	200m†		2.0m†	83	200n†	07	G017	TO100
34	ICB8000C	30	30m†	20u†	35m	5.0n☑	5.0n☑	18 §		7.0	200m†		2.0m†	83	200n†	07	G017	TO100
35	AD351K	30	45m†	5.0u☑	6.0m§	100n§	4.0n☑	20		7.0	400m	10k†	2.0m	83		5C	G017	TO100
36	AD351S	30	45m†	10u	6.0m§	100n§	750n	20		7.0	400m	10k†	2.0m	83		5C	G017	TO100
37	AD351J	30	45m†	20u☑	6.0m§	100n§	4.0n☑	20		7.0	400m	10k†	2.0m	83		5C	G017	TO100
38	ICL8001MTZ	30	60m	3.0u†	4.0m	100u	200u	20		7.0	200m†		2.0m	84	250n†	5C	G020	TO100
39	ICL8001CTZ	30	60m	3.0u†	6.0m	100u	300u	20		7.0	200m†		2.0m	84	250n†	07	G020	TO100
40▼	AM1500DC	30	81m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		5C	G018	MP230
41	uA734DM	30	105m	15u	4.0m	20n	150n	20		7.0	400m§Δ		3.2m	91	200n†	5C	G041	TO116
42	uA734HM	30	105m	15u	4.0m	20n	150n	20		7.0	400m§Δ		3.2m	91	200n†	5C	G041	TO100
43	uA734DC	30	105m	20u	7.5m	45n	150n	20		7.0	400m§Δ		3.2m	91	200n†	07	G041	TO116
44	uA734HC	30	105m	20u	7.5m	45n	150n	20		7.0	400m§Δ		3.2m	91	200n†	07	G041	TO100
45	350C	30	105m	25u	2.0m△	10p§	30p§	20		10	10		7.0m	94	100u	28		MP5ab
46	350B	30	105m	40u	2.0m△	10p§	30p§	20		10	10		7.0m	94	100u	28		MP5ab
47	350A	30	105m	75u	2.0m△	10p§	30p§	20		10	10		7.0m	94	100u	28		MP5ab
48	9051	30	120m	1.0u	30u	10n	100n	20		10	10	100	10m	120	500n	58		MP282
49	LM111D	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G016	MP14r
50	LM111F883	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G016	FP☑
51	LM111F	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G016	FP2n
52	LM111H883	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G016	TO99
53	LM111H	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G016	TO99
54	LM211D	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	28	G016	MP14r
55	LM211F	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	28	G016	FP2n
56	LM211H	30	123m†		4.0m	20n	150n	28 †						106 †	200n†	28	G016	TO99
57	monoCMP02EJ	30	147m	1.5u†	1.4m	3.0n	80n	26		2.4	400m§	2.5k†	50m	106	175 †	07		TO99
58	monoCMP02EY	30	147m	1.5u†	1.4m	3.0n	80n	26		2.4	400m§	2.5k†	50m	106	175 †	07		TO116
59	monoCMP02J	30	147m	1.5u†	1.6m	4.0n	120n	26		2.4	400m§	2.5k†	50m	106	175 †	5C		TO99
60	monoCMP02Y	30	147m	1.5u†	1.6m	4.0n	120n	26		2.4	400m§	2.5k†	50m	106	175 †	5C		TO116
61	monoCMP01EJ	30	149m	1.5u†	1.4m	45n	950n	24		2.4	400m§	2.5k†	50m	106	150n	07		TO99
62	monoCMP01EY	30	149m	1.5u†	1.4m	45n	950n	24		2.4	400m§	2.5k†	50m	106	150n	07		TO116
63	monoCMP01J	30	149m	1.5u†	1.6m	80n	1.4u	24		2.4	400m§	2.5k†	50m	106	150n	5C		TO99
64	monoCMP01Y	30	149m	1.5u†	1.6m	80n	1.4u	24		2.4	400m§	2.5k†	50m	106	150n	5C		TO116
65	AMLM111D	30	157m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		5C	G018	MP151a
66	AMLM111F	30	157m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		5C	G018	FP18
67	AMLM111H	30	157m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		5C	G018	TO99
68	AMLM211D	30	157m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		28	G018	MP151a
69	AMLM211H	30	157m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		28	G018	TO99
70	monoCMP01CJ	30	161m	1.0u†	3.5m	120n☑	1.2u☑	26		2.4	400m§	2.5k†	50m	100 †	110n†	07	G023	TO99
71	monoCMP01CP	30	161m	1.0u†	3.5m	120n☑	1.2u☑	26		2.4	400m§	2.5k†	50m	100 †	110n†	07	G022	TO116
72	monoCMP02CJ	30	161m	1.6u†	3.5m	15n	160n	26		2.4	400m§	2.5k†	50m	100	175 †	07		TO99
73	monoCMP02CY	30	161m	1.6u†	3.5m	15n	160n	26		2.4	400m§	2.5k†	50m	100	175 †	07		TO116
74	HA1S2111	30	165m		4.0m	20n	150n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	5C	G016	TO116
75	HA1S2211	30	165m		4.0m	20n	150n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	28	G016	TO116
76	HA2A2111	30	165m		4.0m	20n	150n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	5C	G016	TO99
77	HA2A2211	30	165m		4.0m	20n	150n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	28	G016	TO99
78▼	SN52111FA	30	165m		4.0m	20n	150n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	5C	G016	FP2t
79▼	SN52111J	30	165m		4.0m	20n	150n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	5C	G016	TO116
80▼	SN52111JP	30	165m		4.0m	20n	150n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	5C	G016	MP383
81▼	SN52111L	30	165m		4.0m	20n	150n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	5C	G016	TO99
82	LH2111DØ	30	180m		4.0m	20n	150n	28 †	3.0m†					106 †	200n†	5C	G034	MP230a
83	LH2111FØ	30	180m		4.0m	20n	150n	28 †	3.0m†					106 †	200n†	5C	G034	FP28
84	LH2211DØ	30	180m		4.0m	20n	150n	28 †	3.0m†					106 †	200n†	28	G034	MP230a
85	LH2211FØ	30	180m		4.0m	20n	150n	28 †	3.0m†					106 †	200n†	28	G034	FP28
86	AMLM311D	30	187m		10m	70n	300n	26		30	30			106 †		07	G018	MP151a
87	AMLM311H	30	187m		10m	70n	300n	26		30	30			106 †		07	G018	TO99
88	HA1S2311	30	187m		10m	70n	300n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	07	G016	TO116
89	HA2A2311	30	187m		10m	70n	300n	28 †	3.0m†	28 †	0.0		8.0m	106 †	200n†	07	G016	TO99
90	LM311D	30	187m		10m	70n	300n	28	3.0m†				8.0m	106 †	200n†	07	G016	MP148
91	LM311F	30	187m		10m	70n	300n	28	3.0m†				8.0m	106 †	200n†	07	G016	FP2
92	LM311H	30	187m		10m	70n	300n	28	3.0m†				8.0m	106 †	200n†	07	G016	TO99
93	LM311N14	30	187m		10m	70n	300n	28	3.0m†				8.0m	106 †	200n†	07	G016	MP39n
94	LM311N	30	187m		10m	70n	300n	28	3.0m†				8.0m	106 †	200n†	07	G016	MP189
95▼	SN72311FA	30	187m		10m	70n	300n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	07	G016	FP2t
96▼	SN72311J	30	187m		10m	70n	300n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	07	G016	TO116
97▼	SN72311L	30	187m		10m	70n	300n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	07	G016	TO99
98▼	SN72311N	30	187m		10m	70n	300n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	07	G016	MP39h
99▼	SN72311P	30	187m		10m	70n	300n	28 †	3.0m†	35 †	1.5 §Δ		50m	126 †	115n†	07	G016	MP267
00	H8010C	30	195m	10u	Δ	50n	250n	20						86		28		MP5ad
01▼	JANM38510/10304AGA	30	210m	2.0u	3.0m	15n	125n	30 △	2.5m		1.5 §Δ		50m△	106	300n	5C	G050	CN1k
02▼	JANM38510/10304AGB	30	210m	2.0u	3.0m	15n	125n	30 △	2.5m		1.5 §Δ		50m△	106	300n	5C	G050	CN1k
03▼	JANM38510/10304AGC	30	210m	2.0u	3.0m	15n	125n	30 △	2.5m		1.5 §Δ		50m△	106	300n	5C	G050	CN1k
04▼	JANM38510/10304AHA	30	210m	2.0u	3.0m	15n	125n	30 △	2.5m		1.5 §Δ		50m△	106	300n	5C	G050a	FP31
05▼	JANM38510/10304AHB	30	210m	2.0u	3.0m	15n	125n	30 △	2.5m		1.5 §Δ		50m△	106	300n	5C	G050a	FP31

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

9. VOLTAGE COMPARATORS

IN ORDER OF (1)TOTAL VOLT (2)MAX IDLE POWER
(3)MAX VOLT DRIFT (4)MAX OFFSET VOLT (5)TYPE

LINE No.	TYPE No.	PWR SUP@25°C RATED SPECS		INPUT CHARACTERISTICS						OUTPUT CHAR. @ 25°C			W/C TRANSFER CHAR. @25°C		T C E O M D P E	DRAWINGS	
				OVER OPERATING TEMP. RANGE				@25°C		MIN. OUTPUT VOLTAGE		MAX. OUT RES.	MIN. CURR SINK			CKT.	OUT-LINE Δ=MO
		1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFSET (V)	OFFSET (A)	BIAS (A)	STROBE RANGE (ΔV)	STROBE CUR-MAX (A)	POS (V)	NEG (V)	(Ω)	(A)	VOLT. GAIN (dB)	RESP. TIME (s)	-+		
1▼	JANM38510/10304AHC	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
2▼	JANM38510/10304BGA	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
3▼	JANM38510/10304BGB	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
4▼	JANM38510/10304BGC	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
5▼	JANM38510/10304BHA	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
6▼	JANM38510/10304BHB	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
7▼	JANM38510/10304BHC	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
8▼	JANM38510/10304CGA	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
9▼	JANM38510/10304CGB	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
10▼	JANM38510/10304CGC	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050	CN1k
11▼	JANM38510/10304CHA	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
12▼	JANM38510/10304CHB	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
13▼	JANM38510/10304CHC	30	210m	2.0u	3.0m	15n	125n	30 Δ	2.5m		1.5 §Δ		50mΔ	106	300n	5C	G050a	FP31
14	LH2311DØ	30	225m		10m	70n	300n	28 †	3.0m†					106 †	200n†	07	G034	MP230a
15	LH2311FØ	30	225m		10m	70n	300n	28 †	3.0m†					106 †	200n†	07	G034	FP28
16	LM119D883	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	MP148
17	LM119D	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	MP148
18	LM119F883	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	FP18
19	LM119F	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	FP18
20	LM119H883	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	CN10e
21	LM119H	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	5C	G035	CN10e
22	LM219D	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	28	G035	MP148
23	LM219F	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	28	G035	FP18
24	LM219H	30	240m		7.0m	100n	1.0u	26 †					3.2m	80	130n	28	G035	CN10e
25▼	AM1500DM	30	255m		4.0m	20n	150n	26		5.0 †	0.0 †		3.2m	106 †		5C	G018	MP230
26▼	AM1500FM	30	255m		4.0m	20n	150n	26		5.0 †	0.0 †			106 †		5C	G018	FP19
27	LM319D	30	262m		10m	300n	1.2u	26 †					3.2m	78	130n	07	G037	MP148
28	LM319F	30	262m		10m	300n	1.2u	26 †					3.2m	78	130n	07	G037	FP18
29	LM319H	30	262m		10m	300n	1.2u	26 †					3.2m	78	130n	07	G037	CN10e
30	LM319N	30	262m		10m	300n	1.2u	26 †					3.2m	78	130n	07	G037	MP39
31♦	9052	30	330m	10u	5.0mΔ		3.0u			2.5	300m	100	30m	86	60n	58		MP5bk
32♦	4082-03	30	360m		12m	80n	700n	20		40	0.0	3.0 †	100m		7.0u	28		MP310a
33♦	4032-12C	30	360m		20m	80n	700n	20		40	0.0	3.0 †	100m		2.0m	28		MP5bz
34♦	9050	30	360m	100u	20mΔ	20u	50u	2.0		10	700m	100	10m	60	5.0n	58		MP268
35▼	9053	30	390m	1.0m	Δ	10p	30p	20	5.0m	10	10	50	50m	57	20n	5A		MP5cg
36	SG111M	30	500m†		4.0m	20n	150n	28 †						106 †	200n	28	G031	MP189a
37	SG111T	30	500m†		4.0m	20n	150n	28 †						106 †	200n†	5C	G031	TO99
38	SG211M	30	500m†		4.0m	2.0n	150n	28 †						106 †	200n	28	G031	MP189a
39	SG211T	30	500m†		4.0m	20n	150n	28 †						106 †	200n†	28	G031	TO99
40	SG311M	30	500m†		10m	70n	300n	28 †						106 †	200n	07	G031	MP189a
41	SG311T	30	500m†		10m	70n	300n	28 †						106 †	200n†	07	G031	TO99
42	4C22-25	30	525m	200u	2.0m§			20		10	500m					28		MP290g
43	MC1507L§Ø	30	640m			250n	2.5u	11 §		4.0	.50 §Δ		3.2m	60	130n	5C	A238	MP104a
44	MC1407L§Ø	30	810m			400n	4.0u	11 §		4.0	.50 §Δ		3.2m	60	130n	07	A238	MP104a
45	LM529H	32	140m		3.0m	3.0u	20u	12	1.6m			100 †	20mΔ	70	14n†§	5C		CN10e
46	LM529CH	32	140m		5.0m	5.0u	30u	12	1.6m			100 †	20mΔ	70	14n†§	07		CN10e
47	LM529CN	32	140m		5.0m	5.0u	30u	12	1.6m			100 †	20mΔ	70	14n†§	07		MP39n
48#	SFC2111M	36	135m		3.0m	10n	100n	28						106	200n	5C	G016	TO99
49#	SFC2211	36	135m		3.0m	10n	100n	28						106	200n	28	G016	TO99
50#	SFC2311	36	135m		7.5m	50n	250n	28						106	200n	07	G016	TO99
51	770-724	48	480m	50u	500uΔ	50n	600n	12		12	0.0	1.0k		100	1.0uØ			MP105

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE
(3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS 2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	MIN. INPUT CHAR. @25°C IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	OUTPUT CHAR. @25°C MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	T C E O M D P E -+	CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1#	TAA960	1	6.0	250m	25k	4.0	9.0k	10	56			Tri-Amp for Filter;Gv†39dB;Ro 500Ωper Amplifier.
2	NC260	1	12	150m	300k	15	25	16	5C	Z004	CN17a	Gv .95*;BW 20MHz*;RL 1.0kΩ†.
3	PC260	1	12	150m	300k	15	25	16	5C	Z004	FP7a	Gv .95*;BW 20MHz*;RL 1.0kΩ†.
4	HIC037	1	24	240m	180k		10	20	5C	Z003	CN1m	3dB BW 30MHz*;THD .1%;Icc ±10mA.
5	HX0002	1	24	240m	180k	100 *	10	20	5C	Z003	CN11c	BW 30MHz;Gv .95.
6	HX0002C	1	24	240m	180k	100 *	10	20	07	Z003	CN11c	BW 30MHz;Gv .95.
7	LH0002CH	1	24 ♦	240m	180k	24	10	20	08	Z003	TO99	Bandwidth 30MHz min;GV .95;RL 1.0kΩ†.
8	LH0002CN	1	24 ♦	240m	180k	24	10	20	08	Z003	MP349	Bandwith 30MHz min;GV .95;RL 1.0kΩ†.
9	LH0002H	1	24 ♦	240m	180k	24	10	20	5C	Z003	TO99	Bandwith 30MHz min;GV .95;RL 1.0kΩ†.
10	NH0002-883	1	24	240m	180k	100 *	10	20	5C	Z003	CN11c	BW 30Hz*;RI 1.0ΩΔ;Gv .95*.
11	NC0002	1	24	600m	180k	24	10	20	5C	Z003	CN1k	Gv .95*;BW 30MHz*;RL 1.0kΩ†.
12	NC0002C	1	24	600m	180k	24	10	20	07	Z003	CN1k	Gv .95*;BW 30MHz*;RL 1.0kΩ†.
13	123K	1	25 §	125m	1.0G	75	100	15	25		MP194	Neg.Pol;Freq. 200kHz;Acc 1.0%;No 100dB.
14	123L	1	25 §	125m	1.0G	75	100	15	25		MP193e	Neg.Pol;Freq. 200kHz;Acc 1.0%;No 100dB.
15	125K	1	25 §	125m	1.0G	75	100	15	25		MP194	Pos.Pol;Freq. 200kHz;Acc 1.0%;No 100dB.
16	125L	1	25 §	125m	1.0G	75	100	15	25		MP193e	Pos.Pol;Freq. 200kHz;Acc 1.0%;No 100dB.
17	HA2A2000	1	30	51m	1.0T†	20		20	5C	Z287	TO99	Preamp;BW 10MHz†;Ri 1.0TΩ†;Gv .99.
18	HA2A2000A	1	30	51m	1.0T†	20		20	5C	Z287	TO99	Preamp;BW 10MHz†;Ri 1.0TΩ†;Gv .99.
19	HA2A2005	1	30	51m	1.0T†	20		20	07	Z287	TO99	Preamp;BW 10MHz†;Ri 1.0TΩ†;Gv .99.
20	HA2A2005A	1	30	51m	1.0T†	20		20	07	Z287	TO99	Preamp;BW 10MHz†;Ri 1.0TΩ†;Gv .99.
21	H6030	1	30	60m	3.0M	40 †	45	20	4A		MP6h	Gv .95*;BW 13MHz*;SR 75V/us*;RI 500 Ω.
22#	TCA410A	1	30	99m		30	1.0 †	25	27	Z314	TO72	Voltage Follower.
23#	TCA410B	1	30	99m		30	1.0 †	25	27	Z314	TO72	Voltage Follower.
24	B10	1	30	120m†		30 Δ		20	06		MP5ac	Booster Amp;Gv .95V/V;BW 6.0M;SR 40V/uS*.
25	LM102H	1	30	120m	10G	30 Δ	2.5	20	5C	A002	TO99	GV .999*;SR 10V/us*;RL 10kΩ.
26#	MT102	1	30	120m	10G	30 Δ	2.5	20	5C	A002	CN1c	Volt.follower;T.C 6.0uV/°C;Gv .999*.
27♦	9910	1	30	150m	1.0M	24	20	20	5C			GV .90;SR 2kV/us;BW 57MHz;ΔIO 200mA.
28	AMLM110	1	30	165m	10k	4.0m*	2.5	20	5C	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/uS†.
29	AMLM110D	1	30	165m	10k	4.0m*	2.5	20	5C	Z239	MP151a	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
30	AMLM110F	1	30	165m	10k	4.0m*	2.5	20	5C	Z239	TO91	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
31	AMLM110H	1	30	165m	10k	4.0m*	2.5	20	5C	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
32	AMLM210	1	30	165m	10k	4.0m*	2.5	20	28	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/uS†.
33	AMLM210D	1	30	165m	10k	4.0m*	2.5	20	28	Z239	MP151a	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
34	AMLM210F	1	30	165m	10k	4.0m*	2.5	20	28	Z239	TO91	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
35	AMLM210H	1	30	165m	10k	4.0m*	2.5	20	28	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
36	AMLM310	1	30	165m	10k	7.5m*	2.5	20	07	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/uS†.
37	AMLM310D	1	30	165m	10k	7.5m*	2.5	20	07	Z239	MP151a	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
38	AMLM310F	1	30	165m	10k	7.5m*	2.5	20	07	Z239	TO91	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
39	AMLM310H	1	30	165m	10k	7.5m*	2.5	20	07	Z239	TO99	Volt.Follower;Gv .999;BW 20MHz;SR 30V/us†.
40	LH2110D	1	30	165m	10G	30 Δ	2.5	20	5C	Z274	MP230a	Inp Vos 6.0mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
41	LH2110F	1	30	165m	10G	30 Δ	2.5	20	5C	Z274	FP28	Inp Vos 6.0mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
42	LH2210D	1	30	165m	10G	30 Δ	2.5	20	28	Z274	MP230a	Inp Vos 6.0mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
43	LH2210F	1	30	165m	10G	30 Δ	2.5	20	28	Z274	FP28	Inp Vos 6.0mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
44	LH2310D	1	30	165m	10G	30 Δ	2.5	20	07	Z274	MP230a	Inp Vos 10mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
45	LH2310F	1	30	165m	10G	30 Δ	2.5	20	07	Z274	FP28	Inp Vos 10mVΔ;Gv .999V/V*;Inp. Biasl 10nAΔ.
46	LM102F	1	30	165m	10G	30 Δ	2.5	20	5C	A122	FP2m	Gv .999*;SR 10V/us*;RL 10kΩ.
47	LM202H	1	30	165m	10G	30 Δ	2.5	20	28	A002	TO99	GV .999*;SR 10V/us*;RL 8kΩ.
48	LM302H	1	30	165m	10G		2.5		07	A002	TO99	GV.9985* FP BW SR 10V/US† RL8kΩ.
49#	MT102-883	1	30	165m		30 Δ	2.5	20	5C		CN1c	Volt.follower;Gv .999*;Vos 5.0mVΔ.
50#	MT202	1	30	165m	10G	30 Δ	2.5	20	28	A002	CN1c	Volt.follower;Gv .999*;Vos 10mVΔ.
51#	MT302	1	30	165m	1.0G	30 Δ	2.5	20	07	A002	CN1c	Volt.follower;Gv .998*;Vos 15mVΔ.
52	9714	1	30	240m	1.0T	20	3.0m	20	58		MP6q	Gv 1.0;BW 20MHz;SR 15V/us;ΔIO 80mA.
53	9905	1	30	240m	100G	20	10	20	6C		MP316	Volt.Follower;Gv .97;BW 20MHz;SR 1000V/uS;ΔIo200mA
54	H6050	1	30	240m	1.0M	48 †	15	20	4A		MP42b	Gv .90*;BW 15MHz*;SR 100V/us*;RI100 Ω.
55	9110B	1	30	300m	100k	24	10	20 †	58		MPⓏ	Current Booster;Voltage Gain .97;SR 900V/uS.
56	9746	1	30	300m	100G	20	30	20	5A		MP86a	Gv 1.0;BW 30MHz;SR 600V/us;ΔIO 100mA.
57	9810	1	30	300m	100k	24	10	20	58		MP268	Booster;Voltage Gain .95;SR 900V/us.
58	10L3LB	1	30	450m†	250k		200 *	20	58		MP111a	Gv 900m*;RL 100Ω.
59	3329/03	1	30	450m	100k†	20	10 †	20	48		MP119	Gv 1.0Vt;FPBW 500kHz*;RI 100mΩ.
60	9162B	1	30	450m	10k	26	10	20	58		MPⓏ	Current Booster;Voltage Gain .90;SR 1.8kV/us.
61	BQ100	1	30	450m	300k		3.0	20	25		MP5	Gv .95*;FP BW 400kHz*;SR 35V/us;RI 100 Ω.
62	MC1438R	1	30	450m	400k†	18	10 †	22	07	Z037	CN30	Gv 850mV*;BW 8.0MHz†;FP BW 1.5MHz†;RL 300Ω.
63	1490	1	30	600m	20k		400 *	20	28		MP5y	Gv .85*;FP BW 100kHz†;SR 50V/usec;RI 50 Ω*.
64	HFB7	1	30	600m	100G†	30	10	20	59	Z099	CN2g	BW 100MHz*;SR 1.0k V/us*.
65	HX0033	1	30	660m	10G		10	19	5C	A246	CN2h	Voltage Follower,High Speed Buffer;Gv.97*,Ro 10Ω.
66	HX0033C	1	30	660m	10G		10	19	07		TO8	Voltage Follower,High Speed Buffer;Gv.97*;Ro 10Ω.
67	LH0033G	1	30	660m	10G	30	10	18	5C	Z288	CN18c	FET Inputs;Bandwidth 100MHz†;GV .97.
68	LH0033J	1	30	660m	10G	30	10	18	5C	Z288	MP334	FET Inputs;Bandwith 100MHz†;GV .97.
69	LH0033CG	1	30	720m	10G	30	10	18	28	Z288	CN18c	FET Inputs;Bandwith 100MHz†;GV .96.
70	LH0033CJ	1	30	720m	10G	30	10	18	28	Z288	MP334	FET Inputs;Bandwith 100MHz†;GV .96.
71#	2022	1	30	750m	5.0k	26	1.0	26	08	Z228	MP295	Gv .99;BW 1.0MHz;Overload Protected.
72#	3022	1	30	750m	5.0k	26	1.0	26	08	Z228	MP295	Gv .99;BW 1.0MHz.
73♦	9820	1	30	750m	500k	24	10	20	58		MP5bk	GV .95;SR 4kV/us;BW 100MHz;ΔIO 200mA.
74	1620	1	30	1.2	20k		200	20	28		MP5y	Gv .90*;FP BW 300kHz†;SR 50V/usec;RI 100 Ω*.
75	9689	1	30	1.2	30k	24	5.0	20	58		MPⓏ	Current Booster;Voltage Gain .90;SR 300V/us.
76	9690A	1	30	1.2	1.0M	22	300m	20	58		MPⓏ	Booster;Voltage Gain .85;SR100V/us.
77	9691A	1	30	2.2	1.0M	22	100m	20	58		MPⓏ	Booster;Voltage Gain .80;SR 20V/us.
78	LH0063K	1	30	2.2	10G	30	4.0	20	5C	Z289	CN22d	FET Inputs;Bandwidth 200MHz†;GV .96;SR 6000V/us.
79	LH0063CK	1	30	2.4	10G	30	4.0	20	28	Z289	CN22d	FET Inputs;Bandwidth 200MHz†;GV .96;SR 6000V/us.
80	LM110D	1	36	198m	10G	30 Δ	2.5	20	5C	A122	MP148	Bandwidth 20MHz;GV .999*;SR 30V/us.
81	LM110F	1	36	198m	10G	30 Δ	2.5	20	5C	A122	FP2	Bandwidth 20MHz;GV .999*;SR 30V/us.
82	LM110H	1	36	198m	10G	30 Δ	2.5	20	5C	A122	TO99	Bandwidth 20MHz;GV .999*;SR 30V/us.
83	LM210D	1	36	198m	10G	30 Δ	2.5	20	28	A122	MP148	Bandwidth 20MHz;GV .999*;SR 30V/us.
84	LM210F	1	36	198m	10G	30 Δ	2.5	20	28	A122	FP2	Bandwidth 20MHz;GV .999*;SR 30V/us.
85	LM210H	1	36	198m	10G	30 Δ	2.5	20	28	A122	TO99	Bandwidth 20MHz;GV .999*;SR 30V/us.
86	LM310D	1	36	198m	10G	30 Δ	2.5	20	07	A122	MP148	Bandwidth 20MHz;GV .999*;SR 30V/us.
87	LM310F	1	36	198m	10G	30 Δ	2.5	20	07	A122	FP2	Bandwidth 20MHz;GV .999*;SR 30V/us.
88	LM310H	1	36	198m	10G	30 Δ	2.5	20	07	A122	TO99	Bandwidth 20MHz;GV .999*;SR 30V/us.
89	LM310N	1	36	198m	10G	30 Δ	2.5	20	07	A122	MP189	Bandwidth 20MHz;GV .999*;SR 30V/us.
90	MLM110G	1	36	198m	10G		2.5	20	5C	Z235	TO99	GV .999*;BW 20MHz†;SR 30V/us†;Pd 500mWΔ.
91	MLM210G	1	36	198m	10G		2.5	20	28	Z235	TO99	GV .999*;BW 20MHz†;SR 30V/us†;Pd 500mWΔ.
92	MLM310G	1	36	198m	10G		2.5	20	07	Z235	TO99	GV .999*;BW 20MHz†;SR 30V/us†;Pd 500mWΔ.
93▼	JANM38510/10601ACA	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
94▼	JANM38510/10601ACB	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
95▼	JANM38510/10601ACC	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
96▼	JANM38510/10601AGA	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
97▼	JANM38510/10601AGB	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
98▼	JANM38510/10601AGC	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
99▼	JANM38510/10601AHA	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
100▼	JANM38510/10601AHB	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
101▼	JANM38510/10601AHC	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.

SYMBOLS AND CODES
EXPLAINED IN INTERPRETER

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE (3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS 2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	MIN. INPUT CHAR. @25°C IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	OUTPUT CHAR. @25°C MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	JANM38510/10601BCA	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
2▼	JANM38510/10601BCB	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
3▼	JANM38510/10601BCC	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
4▼	JANM38510/10601BGA	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
5▼	JANM38510/10601BGB	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
6▼	JANM38510/10601BGC	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
7▼	JANM38510/10601BHA	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
8▼	JANM38510/10601BHB	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
9▼	JANM38510/10601BHC	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
10▼	JANM38510/10601CCA	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
11▼	JANM38510/10601CCB	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
12▼	JANM38510/10601CCC	1	36	234m		30 Δ	2.5	20	5C	Z348	MP315	Voltage Follower;tr 44ns max;SR 7.0V/us min.
13▼	JANM38510/10601CGA	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
14▼	JANM38510/10601CGB	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
15▼	JANM38510/10601CGC	1	36	234m		30 Δ	2.5	20	5C	Z348	CN1k	Voltage Follower;tr 44ns max;SR 7.0V/us min.
16▼	JANM38510/10601CHA	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
17▼	JANM38510/10601CHB	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
18▼	JANM38510/10601CHC	1	36	234m		30 Δ	2.5	20	5C	Z348	FP31	Voltage Follower;tr 44ns max;SR 7.0V/us min.
19▼	JANM38510/10602ACA	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
20▼	JANM38510/10602ACB	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
21▼	JANM38510/10602ACC	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
22▼	JANM38510/10602AGA	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
23▼	JANM38510/10602AGB	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
24▼	JANM38510/10602AGC	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
25▼	JANM38510/10602AHA	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
26▼	JANM38510/10602AHB	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
27▼	JANM38510/10602AHC	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
28▼	JANM38510/10602BCA	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
29▼	JANM38510/10602BCB	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
30▼	JANM38510/10602BCC	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
31▼	JANM38510/10602BGA	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
32▼	JANM38510/10602BGB	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
33▼	JANM38510/10602BGC	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
34▼	JANM38510/10602BHA	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
35▼	JANM38510/10602BHB	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
36▼	JANM38510/10602BHC	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
37▼	JANM38510/10602CCA	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
38▼	JANM38510/10602CCB	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
39▼	JANM38510/10602CCC	1	36	234m		30 Δ	2.5	20	5C	Z349	MP315	Voltage Follower;tr 44ns max;SR 30V/us min.
40▼	JANM38510/10602CGA	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
41▼	JANM38510/10602CGB	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
42▼	JANM38510/10602CGC	1	36	234m		30 Δ	2.5	20	5C	Z349	CN1k	Voltage Follower;tr 44ns max;SR 30V/us min.
43▼	JANM38510/10602CHA	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
44▼	JANM38510/10602CHB	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
45▼	JANM38510/10602CHC	1	36	234m		30 Δ	2.5	20	5C	Z349	FP31	Voltage Follower;tr 44ns max;SR 30V/us min.
46	MC1538R	1	40	300m	400k†	22	10 †	24	5C	Z037	CN30	Gv 900mV*;BW 8.0MHz†;FP BW 1.5MHz†;RL 300Ω.
47	866	1	40	1.4	4.0k†	40 Δ	10	56	5C	E006a	MP156	Freq. 40Mt;Gain -100mΩ*.
48	770-406-1	1	44	1.4	10G	20	100m	20	05		MP43	Gv 1.0†;FP BW 2.0M*;SR 175V/usec*;RI 1.0kΩ*.
49	770-406-2	1	44	1.4	10G	20	300m	20	05		MP43	Gv 10Ø;FP BW 2.0M*;SR 175V/usec*;RI 1.0kΩ*.
50	770-406-3	1	44	1.4	10G	20	300m	20	05		MP43	Gv 10;FP BW 2.0M*;SR 175V/usec*;RI 1.0kΩ*.
51	823	1	60	1.6	4.0k	60 Δ	10	56	5C	E037	MP197	Freq. 4.0M*;Gain -100mΩ*.
52	9800	1	160	160m	10k	150	3.0	150	27		MP210	Gv .85;BW 10MHz;SR 30V/uS;ΔIo 2.0A.
53#	SL530C	2	6.0 §	150m	500		10		5C	Z283	CN23	TRUE;DYNAMIC RANGE 73dB AT BANDWIDTH 10MHz.
54	SN56502J	2	12	201m	500 †	1.0	200 †	5.4	5C	Z143	MP153	Bandwidth DC to 40MHz.
55♦	SN56502N	2	12	201m	500 †	10m	200 †	5.4	5C	Z143	MP386	BANDWIDTH DC to 40MHz.
56	SN76502J	2	12	201m	500 †	1.0	200 †	5.4	07	Z143	MP153	Bandwidth DC to 40MHz.
57	SN76502N	2	12	201m	500 †	1.0	200 †	5.4	07	Z143	MP252c	Bandwidth DC to 40MHz.
58	2216	2	24	480m	1.0 †	5.0	1.0 †	5.0 †	05		MPØ	Dynamic Range 66db;Error 1.0%Δ;Freq. 1.0kHz.
59	A730	2	30				1.0k	20	28	A175	MP5bg	Log Amp;Vo±10V,loffset ±10pA;Pos.Volt.or Cur.
60	A731	2	30				1.0k	20	28	A175	MP5bg	Log Amp;Vo±10V,loffset ±10pA;Neg.Volt.or Cur.
61	A4350	2	30			10		20	28	Z175	MP5bg	Io ±10mA;Positive volt or current;Ios ±50pA.
62	A4351	2	30			10		20	28	Z175	MP5bg	Io ±10mA;Neg.volt or current;Ios ±50pA.
63	4350	2	30	120m		10		20	28		MP68	Mod;Rng 80dB;Acc 2.0%*;Tc .04%/°C*;BW 80Hz.
64	4351	2	30	120m		10		20	28		MP68	Mod;Rng 80dB;Acc 2.0%*;Tc .04%/°C*;BW 80Hz.
65	2457	2	30	150m	500k	60		20	58		MPØ	Dynamic Range 100db;Error ±3.0%Δ;Freq. 30Hz.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE (3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS 2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	MIN. INPUT CHAR. @25°C IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	OUTPUT CHAR. @25°C MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	T C E O M D P E - +	DRAWINGS CKT.	OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	ICL8048CDE	2	30	195m				24	07	Z280	MP344	Dyn.Range 120dB(1nA to 1mA);Acc ±2%.
2	ICL8048CPE	2	30	195m				24	07	Z280	MP343	DYN. RANGE 120dB(1nA TO 1mA);Acc±2%.
3▼	396	2	30	270m	260	20m	1.0	2.0m	57		MP☐	Dyn.Range 80dB;TC 2mV/°C;BW DC-1MHz.
4	1896	2	30	360m	20k†	20	100	20 †	08		MP5ay	Rng. 80db;Acc. 1%†;Tc 70m%/°C;BW 70kHz.
5	2507	2	30	450m	10k	20	10	14	58		MP☐	Log Range 80db;Acc. 1.0%†;BW 10kHz.
6	395	2	30	510m	5.0k	250m	1.0	1.0m	58		MP☐	Dyn.Range 80dB;Tc .05%FS/°C;BW DC to 100kHz.
7	4116	2	30	660m	100k	10	10 †	20	07		MP290g	Log Amplifier, 120dB.
8	2538	2	30	690m	100k	20	100m	20	58		MP6q	Log Range 80dB;Acc 2.0%;BW 1.0kHz.
9	376	2	30	750m		400m	30	1.0m	57		MP☐	Dyn.Range 80dB;Tc 2mV/°C;BW DC to 3MHz.
10	2245C	2	30	750m	10G	1.0m	1.0	4.0	27		MP☐	Dyn.Range 80dB;Tc .04%FS/°C;BW DC to 3kHz.
11	2357	2	30	750m	100		30	400m	57		MP☐	Dyn.Range 8dB;Tc 2mV/°C;BW DC to 6MHz.
12	2534	2	30	750m	30M	20	1.0	20	58		MP210	Log Range 100dB;Acc 3.0%;BW 100kHz.
13	2531	2	30	1.9	1.0k	20	1.0	20	27		MP☐	Log Range 80db;Acc. 1.0%†;BW 1.0MHz.
14	2540	2	30	3.7	600	20	20	20	57		MP270	Log Range 100dB;Acc 3.0%;BW 5MHz.
15	SG1402N§	3	10 §	85m	1.2k†		200	3.0	07	E039	MP39a	Balanced Modulator, Frequency Doubler.
16	SG1402T§	3	10 §	85m	1.2k†		200	3.0	5C	E039	TO100	Balanced Modulator, Frequency Doubler.
17	SG2402N§	3	10 §	85m	1.2k†		200	3.0	07	E039	MP39a	Balanced Modulator, Frequency Doubler.
18	SG2402T§	3	10 §	85m	1.2k†		200	3.0	5C	E039	TO100	Balanced Modulator, Frequency Doubler.
19	SG3402N§	3	10 §	85m	1.2k†		300	3.0	07	E039	MP39a	Balanced Modulator, Frequency Doubler.
20	SG3402T§	3	10 §	85m	1.2k†		300	3.0	5C	E039	TO100	Balanced Modulator, Frequency Doubler.
21	AD530LH	3	30						07		TO99	Also Divider;Squarer and Square-Rooter.
22	4201J	3	30	120m	36k†	20 †	1.0 †	20	06		TO100	Acc 2.0%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
23	432J#1	3	30	135m	10k	20	100m	20	28		MP222	ACC 1.0%;FpBW 750kHZ;3dB 1.0MHz;Io 5.0mA.
24	426J#1	3	30	150m	25k	20	100m	22	28		MP80	Acc. 1.0%;FP BW 100kHz;3dB 500kHz;ΔIo 11mA.
25	426K#1	3	30	150m	25k	20	100m	22	28		MP80	Acc. 1.0%;FP BW 100kHz;3dB 500kHz;ΔIo 11mA.
26	428J#1	3	30	150m	25k	20	100m	22	28		MP80	Acc .50%;FPBW 70kHz;3dB 300kHz;Io 11mA.
27	428K#1	3	30	150m	25k	20	100m	22	28		MP80	Acc .50%;FPBW 70kHz;3dB 300kHz;Io 11mA.
28	4202A	3	30	150m	10k†	20 †	1.0 †	20	28		MP311	Acc 1.0%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
29	4202B	3	30	150m	10k†	20 †	1.0 †	20	28		MP311	Acc 600m%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
30	AD530J	3	30	180m	36k†	20	2.0kØ	20	07		TO100	Also Divider;Squarer and Square-Rooter.
31	AD530K	3	30	180m	36k†	20	2.0kØ	20	07		TO100	Also Divider;Squarer and Square-Rooter.
32	ICL8013A	3	30	180m	36k	20	2.0k	20	07		TO100	4 Quad. Mult;Div;Sq;Sq. Rooter w/2.0% Accuracy.
33	ICL8013B	3	30	180m	36k	20	2.0k	20	07		TO100	4 Quad Mult;Div;Sq;Sq. Rooter w/1.0% Accuracy.
34	ICL8013C	3	30	180m	36k	20	2.0k	20	07		TO100	4 Quad. Mult;Div;Sq;Sq. Rooter w/.5% Accuracy.
35	AD530JH	3	30	200m	6.0M	10		10	07		TO100	2% max.error;xy/10 Multiplier with OP AMP.
36	AD530KH	3	30	200m	6.0M	10		10	07		TO100	1% max.error;xy/z Multiplier w/OP AMP.
37	AD530SH	3	30	200m	6.0M	10		10	5C		TO100	1% max.error;xy/z Multiplier w/OP AMP.
38	CA3091D	3	30	200m	500		1.0M†	12	5C	Z193	Δ001AD	Four Quadrant;Acc 2.6% of 10V;BW 4.8MHz;Tc 63nA/°C
39	CA3091H	3	30	200m	500		1.0M†	12	5C	Z193	FC16x	Four Quadrant;Acc 2.6% of 10V;BW 4.8MHz;Tc 63nA/°C
40	107CΔ	3	30	210m	10k	20			07		MP150	Also Divider;Acc 1%FSΔ;IO 10mA*.
41	107C-MIL	3	30	210m	10k	20			5C		MP150	Also Divider;Acc 1%FSΔ;IO 10mA*.
42	MC1594L	3	30	260m	300M†	20	850k†	20	5C	Z136	MP104a	Four-Quadrant;1.0MHz Frequency Response.
43	4203J	3	30	270m	10k†	20 †	1.0 †	20	06		TO100	Acc 1.0%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
44	4203K	3	30	270m	10k†	20 †	1.0 †	20	06		TO100	Acc 600m%;Tc 400uV/°C;BW 3db 1MHz;ΔIo 5.0mA.
45	4203S	3	30	270m	10k†	20 †	1.0 †	20	06		TO100	Acc 600m%;Tc 400uV/°C;BW 3db 1.0MHz;ΔIo 5.0mA.
46	4203SQ	3	30	270m	10k†	20 †	1.0 †	20	5C		TO100	4023S plus Mil-Std-883 screening.
47	5898	3	30	270m	50k	20	1.0	20	5A		MP282	Acc 1.0%;Tc .01%/°C;BW 3dB 300kHz;ΔIo 20mA.
48	422J	3	30	300m	10k	20	3.0	20	05		MP80	Accuracy 1.0% BW FP 1.0MHz,3dB,5.0MHz;ΔIO-20mA.
49	422K	3	30	300m	10k	20	3.0	20	05		MP80	Accuracy 1.0% BW FP 1.0MHz,3dB,5.0MHz;ΔIO-20mA.
50	MC1494L	3	30	350m	300M†	20	850k†	20	07	Z136	MP104a	Four-Quadrant;1.0MHz Frequency Response.
51	ZM605	3	30	360m†	50k	20	1.0	20	28		MP138	Four Quadrant Acc. 1.0%;BW 3dB;tracking .10%.
52	4095-15	3	30	375m†	1.0M†	20 †	1.0 †	20 †	28		MP287d	Transconductance Multiplier.
53	4096-15	3	30	375m†	1.0M†	20 †	1.0 †	20 †	28		MP287d	Transconductance Multiplier.
54	4094-15C	3	30	390m	20k†	20 †	3.0	20 †	28		MP299	Wideband Transconductance Multiplier.
55	420	3	30	450m	20k	20	3.0	20	28		MP80	Accuracy .50% BW FP 50kHz,3dB,250kHz;ΔIO-4.0mA.
56	5897	3	30	450m	10M	20	1.0	20	58		MP268a	Acc 1.0%;Tc 1.0mV/°C;BW 3dB 2.5MHz;ΔIo 20mA.
57	424J	3	30	480m	10k	20	100m	20	28		MP155a	Acc .10%;FPBW 40kHz;3dB 100kHz;Io 7.0mA.
58	424K	3	30	480m	10k	20	100m	20	28		MP155a	Acc .05%;FPBW 40kHz;3dB 100kHz;Io 7.0mA.
59	425J	3	30	480m	10k	20	100m	20	28		CB☐	Acc .10%;FPBW 40kHz;3dB 100kHz;Io 7.0mA.
60	425K	3	30	480m	10k	20	100m	20	28		CB☐	Acc .05%;FPBW 40kHz;3dB 100kHz;Io 7.0mA.
61	427J#1	3	30	480m	10k	20	100m	20	28		MP155a	Acc .15%;FPBW 30kHz;3dB 100kHz;Io 7.0mA.
62	427K#1	3	30	480m	10k	20	100m	20	28		MP155a	Acc .25%;FPBW 30kHz;3dB 100kHz;Io 7.0mA.
63	5050	3	30	540m	4.0k	20		20	59		MP213	Current Output;FPBW 30MHz;Acc 3.0%;Tc 1.0mV/°C.
64	ZM606	3	30	600m†	6.0k	20	1.0	20	28		MP155	Transconductance Mult;Acc .500%;BW 3dB.
65	5822B	3	30	750m	4.0k	10	1.0k	20	58			Multiplication and Squaring;SR 500V/us.
66	4200	3	30	840m	25k†	20 †	1.0 †	20	28		MP298a	Acc .10%.
67	101#1	3	30	1.2k	60k	20 †			28		MP149a	Acc. ± .20% max;BW 100Hz;Output xy/10;ΔIo 20mA.
68	103#1	3	30	1.2k	60k	20 †			28		MP149a	Acc. ± .10% max;BW 100Hz;Output xy/10;ΔIo 20mA.
69	109#1	3	30	1.2k	10k	20 †			28		MP149a	Acc. ± .30%;Output xy/5z;BW 100Hz;ΔIo 20mA.
70	A701	3	32	576m	500k	10		20	06		MP138a	Multiplier-Divider;BW 4.0MHz min.
71	A702	3	32	576m	500k	10		20	06		MP138a	Multiplier-Divider;BW 4.0MHz min.
72	LS1495	3	47	170m	20M	30	300k	28	07	Z045	TO116	4 Quadrant Analog Multiplier.
73	LS1595	3	47	170m	35M	30	300k	28	5C	Z045	TO116	4 Quadrant Analog Multiplier.
74	MC1495	3	47	170m	20M	30	300k	28	07	Z045	TO116	4 Quadrant Analog Multiplier.
75	MC1495L	3	47 §	170m	20M†	30 Δ	300k†	28 †	07	Z045	TO116	Acc4.0%Δ;BW3dB3.0MHz†;Com.ModeGv-50dB†.
76	MC1595	3	47	170m	35M	30	300k	28	5C	Z045	TO116	4 Quadrant Analog Multiplier.
77	MC1595L	3	47 §	170m	35M†	30 Δ	300k†	28 †	5C	Z045	TO116	Acc2.0%Δ;BW3dB3.0MHz†;Com.ModeGv-60dB†.
78	MCC1495	3	47 §	170m	20M†	24 †	300k†	28 †	5C	Z045	FC8	4 Quadrant;Linearity Error 1.0%.
79	MCC1595	3	47 §	170m	35M†	26 †	300k†	28 †	5C	Z045	FC8	4 Quadrant;Linearity Error 0.5%.
80	N5596A	3	47	170m	20M†	30 Δ	300k†	28 †	07	Z045	MP153	Acc 4.0%Δ;BW 3dB 3.0MHz†;Gv 50dB†.
81	N5596K	3	47	170m	20M†	30 Δ	300k†	28 †	07	Z045	CN37	Acc 4.0%Δ;BW 3dB 3.0MHz†;Gv 50dB†.
82	SG1495N	3	47 §	170m	20M†	30 Δ	300k†	28 †	07	Z045	TO116	Acc 4.0%Δ; BW 3dB3.0MHz†; Com.Mode 60V-50dB†.
83	SG1595D	3	47 §	170m	35M†	30 Δ	300k†	28 †	5C	Z045	TO116	Acc 2.0%Δ:BW3dB3.0MHz†;Com Mode GV-60dB†.
84	5904	4	30	150m		10	1.0	20	5A		MP58f	Square, Square Rooter.
85▼	5040	5			10k	10		10	5A		MP☐	RMS to DC Converter.
86	NE566T	5	12	130m	1.0M†		50 †	5.0	07	Z171	CN1g	Voltage Controlled Oscillator.
87	NE566V	5	12	130m	1.0M†		50 †	5.0	07	Z171	MP216	Voltage Controlled Oscillator.
88	SE566T	5	12	130m	1.0M†		50 †	5.0	5C	Z171	CN1g	Voltage Controlled Oscillator.
89	MN350	5	24	900m			5.0	9.0	07		MP293	Sine;Freq 0-10kHz;Vo 0 to 9,0 to -9,4.5 to -4.5.
90	MN350H	5	24	900m			5.0	9.0	5C		MP293	Sine;Freq 0-10kHz;Vo 0 to 9,0 to -9,4.5 to -4.5.
91	MN351	5	24	900m			5.0	9.0	07		MP293	Parabolic;Freq 0-10kHz;Vo 0 to 9,0 to -9,4.5 -4.5.
92	MN351H	5	24	900m			5.0	9.0	5C		MP293	Parabolic;Freq 0-10kHz;Vo 0 to 9,0 to-9,5.4 -4.5.
93	MN352	5	24	900m			5.0	9.0	07		MP293	S Wave;Freq 0-10kHz;Vo 0 to 9,0 to -9,4.5 to -4.5
94	MN352H	5	24	900m			5.0	9.0	5C		MP293	S Wave;Freq 0-10kHz;Vo 0 to 9,0 to -9,4.5 to -4.5
95	A733	5	30		100k				28	Z271	MP138a	Multi-Log Function Module.
96	M530J	5	30	135m	10M	20	8.0	20	28	Z273	TO100	Multiplier/Div/Squarer/Square Rooter;BW 1.0MHz.
97	M530K	5	30	135m	10M	20	8.0	20	28	Z273	TO100	Multiplier/Divider/Squarer/SquareRooter;BW 1.0MHz.
98	M530L	5	30	135m	10M	20	8.0	20	28	Z273	TO100	Multiplier/Divider/Squarer/SquareRooter;BW 1.0MHz.
99	M530S	5	30	135m	10M	20	8.0	20	5C	Z273	TO100	Multiplier/Divider/Squarer/SquareRooter;BW 1.0MHz.
100	4126-15C	5	30	390m	10k†	10	500k†	10 †	46		MP299a	Square Root Converter.
101▼	6250	5	30	540m	1.0k	20		20	5A		MP☐	Display Background Generator.
102▼	6260	5	30	540m	1.0k	20		20	5A		MP☐	Display Background Generator.
103	5712	5	30	600m	50k†	20 †	1.0 †	20	27		MP☐	RMS-Vector;Square root(x sq.and y sq.)function.
104▼	6240	5	30	780m	1.0k	20		20	5A		MP☐	Display Background Generator.
105▼	6241	5	30	780m	1.0k	20		20	5A		MP☐	Display Background Generator.
106▼	6251	5	30	780m	1.0k	20		20	5A		MP☐	Display Background Generator.
107	5889	5	30	810m	6.5k	20	1.0	10	58		MP82a	True RMS;Acc 3%;BW 1MHz;Tc 50uV/°C.
108▼	6210	5	30	900m					58		MP☐	Vector Generator.
109▼	6220	5	30	900m					58		MP☐	Vector Generator.
110▼	6230	5	30	900m					58		MP☐	Vector Generator.

10. MISCELLANEOUS

IN ORDER OF (1) USE (2) TOTAL VOLTAGE (3) MAX IDLE POWER & (4) TYPE No.

LINE No.	4 TYPE No.	1 USE	PWR SUP @25°C RATED SPECS 2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	MIN. INPUT CHAR. @25°C IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	OUTPUT CHAR. @25°C MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)	T C E O M D P E -+	DRAWINGS CKT.	OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	6261	5	30	1.0	1.0k	20		20	5A		MP☑	Display Background Generator.
2	5888	5	30	1.2	3.0k	10	10	2.0	27		MP270	Linear AGC;Input Range 60dB;Output .5dB.
3	5890	5	30	1.2	50k	20	1.0	20	58		MP269	Pin Cushion Correction;BW 3dB 1.0MHz;Acc 1.7%.
4▼	6190	5	30	3.0	100k	20			5A		MP☑	3D Reticle Generator.
5	4130J	5	30	1.2k	10k	23	60m	2.0	27		MP204b	RMS-to DC Converter.
6	4130K	5	30	1.2k	10k	23	60m	2.0	27		MP204b	RMS-to-DC Converter.
7	9009	5	36	60m			1.0	20	58		MP☑	Differentiator, 6dB/OCT freq. roll off.
8	5010	6	30	540m	100M	20	1.0	20	59		MP213	Acc 1.0%;Tc .05%/°C;BW 3db 100kHz;SR 100V/uS.
9	5762	6	30	660m	2.5k†	20 †	1.0 †	20	27		MP☑	Coordinate converter; r sinO and r cosO function.
10	4118-25	6	32	320m	26k†	20 †	500k†	20	28		MP290h	Harmonic Distortion 1%.
11	SSXO1	7	10			36 Δ	100 †	2.0	07		CN☑	Crystal Oscillator;freq 10-100kHz;Dist. 30db.
12#	TBA720	7	12 §	138m		2.4		10 †	06	Z308	MP337d	Line Oscillator Ckt.
13#	TBA720Q	7	12 §	138m		2.4		10 †	06	Z308	MP256	Line Oscillator Ckt.
14♦#	TBA720A	7	12 §	216m		2.4		8.0 †	06	Z309	MP337d	Line Oscillator Ckt.
15♦#	TBA720AQ	7	12 §	216m		2.4		8.0 †	06	Z309	MP256	Line Oscillator Ckt.
16	S100	7	28 §	28m†			2.5k†	5.6 †	08		MP63	Tc .05%/°CΔ#; Dist 5.0%Δ; Freq 400-50kHz;RL35kohms
17	S200	7	28 §	28m†			2.5k†	5.6 †	08		MP66	Tc .05%/°CΔ#; Dist 5.0%Δ; Freq 25-50 kHz;RL35kohms
18	3360	7	30	1.2			2.0	20	5A		MP☑	Tc 50%/°CΔ#;Freq.0-100kHz;Distortion 0.1%.
19	4023-25	7	30	1.2			1.0 †	17	28		MP290	Precision Oscillator.
20	432J#2	8	30	135m	10k	20	100m	20	28		MP222	Acc 1.0%;FPBW 750kHz;-3dB 1.0MHz;Io 5.0mA.
21	426J#2	8	30	150m	25k	10 §	100m	22	28		MP80	Divider Function 10Z/X;Acc. 1.0%;Root Acc. .5%.
22	426K#2	8	30	150m	25k	10 §	100m	22	28		MP80	Divider Function 10Z/X;Acc. 1.0%;Root Acc. .5%.
23	428J#2	8	30	150m	25k	20	100m	22	28		MP80	Acc .50%;FPBW 70kHz;-3dB 300kHz;Io 11mA.
24	428K#2	8	30	150m	25k	20	100m	22	28		MP80	Acc .50%;FPBW 70kHz;-3dB 300kHz;Io 11mA.
25	5895	8	30	450m	100k	10	1.0	10	58		MP241	Acc .6%;Tc 100uV/°C;BW 30kHz;ΔIo 10mA.
26	427J#2	8	30	480m	10k	20	100m	20	28		MP155a	Acc .15%;FPBW 30kHz;-3dB 100kHz;Io 7.0mA.
27	427K#2	8	30	480m	10k	20	100m	20	28		MP155a	Acc .25%;FPBW 30kHz;-3dB 100kHz;Io 7.0mA.
28	4290	8	30	900m†	25k†	100m	1.0	20	28		MP298b	Wide Dynamic Range Divider.
29	101#2	8	30	1.2k	60k	20 †			28		MP149a	Acc. 60mV;BW 100Hz;ΔIo 20mA.
30	103#2	8	30	1.2k	60k	20 †			28		MP149a	Acc. 50mV;BW 100Hz;ΔIo 20mA.
31	106A	8	30	1.2k	90k	20 †			28		MP149	Acc. ± .10%;Output 10y/z;BW 100Hz;ΔIo 20mA.
32	108	8	30	1.2k	10k	20 †			28		MP149	Acc. ± .10%;Output xy/10;BW 100Hz;ΔIo 20mA.
33	109#2	8	30	1.2k	10k	20 †			28		MP149a	Acc. 40mV;BW 100Hz;ΔIo 20mA.
34	410☑	9	28 §	30m	2.0k	5.0	10k†	5.0	58			Freq. 0.0-100KHZ; Tc 500uV/°CΔ;Acc 1.0%Δ.
35	430☑	9	28 §	30m	2.0k	5.0	10k†	5.0	58			Freq 0.0-100kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
36	440☑	9	28 §	30m	2.0k	5.0	10k†	5.0	58			Freq 0.0-100kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
37	410KF	9	28 §	700m	40k†	2.0	10k†	5.0 †§	58		MP65	Freq 0.0-100Hz;Tc 500uV/°CΔ;Acc 1.0%Δ.
38	420KF	9	28 §	700m	40k†	2.0	10k†	5.0 †§	58		MP65	Freq 0.0-1.0kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
39	430KF	9	28 §	700m	40k†	2.0	10k†	5.0 †§	58		MP65	Freq 0.0-10kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
40	440KF	9	28 §	700m	40k†	2.0	10k†	5.0 †§	58		MP65	Freq 0.0-100kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
41	450KF	9	28 §	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-100Hz;Tc 500uV/°CΔ;Acc 1.0%Δ.
42	460KF	9	28 §	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-1.0kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
43	470KF	9	28 §	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-10kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
44	480KF	9	28 §	700m	1.0k	20m	10k†	5.0	05			Freq 0.0-100kHz;Tc 500uV/°CΔ;Acc 1.0%Δ.
45	3337	9	30	240m	1.0M	300m	1.0	10	27		MP209a	Freq. 0 to 100kHz;Linearity .3%.
46♦	A848	9	30	360m	15M†			10	28		MP204c	Linearity .008%;Io 20mA*.
47▼	3338	9	30	390m	1.0k	2.0	1.0	10	5A		MP5cf	Freq 0 to 10kHz;TC ±.01%/°C;Linearity .02%.
48▼	3339	9	30	390m	1.0k	2.0	1.0	10	5A		MP5cf	Freq. 0 to 100kHz;TC ±.01%/°C;Linearity .02%.
49	3327	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 2kHz;Tc ±.01%FS/°C;Linearity .03%.
50	3328	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 5kHz;Tc ±.01%FS/°C;Linearity .03%.
51	3330	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 20kHz;Tc ±.01%FS/°C;Linearity .03%.
52	3331	9	30	510m	10k	500m	1.0	10	27		MP241	Freq. 0 to 50kHz;Tc ±.01%FS/°C;Linearity .03%.
53	3332	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 500Hz;Tc ±.01%FS/°C;Linearity .03%.
54	3333	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 200Hz;Tc ±.01%FS/°C;Linearity .03%.
55	3371	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 1kHz;Tc ±.01%FS/°C;Linearity .03%.
56	3382	9	30	510m	10k	100m	1.0	10	27		MP241	Freq. 0 to 10kHz;Tc ±.01%FS/°C;Linearity .03%.
57	3383	9	30	510m	10k	500m	1.0	10	27		MP241	Freq. 0 to 100kHz;Tc ±.01%FS/°C;Linearity .03%.
58	3334	9	30	660m	10k	100m	1.0	10 §	27		MP☑	Freq.0-200kHz;Tc 1mV/°C;Acc .03%Δ.
59	3335	9	30	660m	10k	100m	1.0	10 §	27		MP☑	Freq.0-500kHz;Tc 1mV/°C;Acc .03%Δ.
60	3336	9	30	660m	10k	300m	1.0	10 §	27		MP☑	Freq.0-1MHz;Tc 1mV/°C;Acc .03%Δ.
61	571	9	30	750m	10k†	1.0 †	10 †	0.0	25		MP☑	Transducer;Freq.Range 100-1.0kHz.
62	ICL8038ACPD	10	30	450m			200 †	28	07	Z279	MP153b	Waveform Gen.;Freq.Drift Stability 50ppm/°C max.
63	ICL8038AMDD	10	30	450m			200 †	28	5C	Z279	MP153b	WAVE FORM GEN;FREQ DRIFT STABILITY 50ppm/°c max.
64	ICL8038BCPD	10	30	450m			200 †	28	07	Z279	MP153b	Waveform Gen.;Freq.Drift Stability 50ppm/°C max.
65	ICL8038BMDD	10	30	450m			200 †	28	5C	Z279	MP153b	Waveform Gen.;Freq.Drift Stability 100ppm/°C max.
66	ICL8038CCPD	10	30	450m			200 †	28	07	Z279	MP153b	Waveform Gen.;Freq.Drift Stability 50ppm/°C max.
67	310VF	11	20	400m	15k	0.0	5.0k		05		MP132	Output freq. 0 to 100cps;Acc. ± 1.0%.
68	320VF	11	20	400m	15k	0.0	5.0k		05		MP132	Output freq 0 to 1.0 KCPS; Acc ± 1.0%.
69	330VF	11	20	400m	15k	0.0	5.0k		05		MP132	Output freq. 0 to 10kcps;Acc. ± 1.0%.
70	340VF	11	20	400m	15k	0.0	5.0k		05		MP132	Output freq. 0 to 100kcps;Acc. ± 1.0%.
71▼	A846	11	30	360m	24k†	10			28		MP199b	Output Freq 0-10kHz;T.C. ±100pm/°C.
72	3370	11	30	450m	100M	10	1.0		27		MP242	Freq 0-1kHz;Tc 0.7Hz/°C;Acc .1%Δ.
73	3374	11	30	450m	100M	10	1.0		27			Freq 0-10kHz;Tc 1.0Hz/°C;Acc .10%Δ.
74	3377	11	30	450m	100M	10	1.0		27		MP☑	Freq.0-100Hz;Tc .01Hz/°C;Acc .1%Δ.
75	3378	11	30	450m	100M	10	1.0		27			Freq 0-10Hz;Tc 100ppm/°C;Acc .10%Δ.
76▼	A844	11	30	750m	10k†	10			28		MP199h	Output Freq 0-100kHz;T.C. ±150ppm/°C max.
77	3329	11	30	810m	10k	10	1.0	10	27		MP209a	Output Freq. 0 to 100kHz;Linearity .3%.
78♦	A847	11	30	960m	24k†	10			28		MP199b	Output Freq 0-10kHz;T.C. ±50ppm/°C.
79♦	A843	11	30	1.2	10k†	10			28		MP199h	Output Freq. 0-1.0MHz;T.C. ±150ppm/°C max.
80	570	11	30	1.5	1.0M†	0.0	100 †	1.0 †	25		MP☑	Transducer;Freq.Range 100-1.0kHz.
81	3375	11	30	1.5	100M	10	1.0		59			Freq 0-100kHz;Tc 100Hz/°C;Acc .10%Δ.
82	3376	11	30	1.5	100M	10	1.0		59			Freq 0-1MHz;Tc 100kHz/°C;Acc .30%Δ.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

11. MISCELLANEOUS

LINE No.	2 TYPE No.	1 USE	TC EO MP DE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	1E25	50	27		MP391	Vi 115VAC†;Vo 1.0V;Io 250mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
2▼	1E50	50	27		MP392	Vi 115VAC†;Vo 1.0V;Io 500mA;Line Reg .05%;Load Reg .20%;Ripple 500uVrms.
3	1NT100	50	27		MP180a	Vi 115 VAC†;Vo 1.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
4	1NT175	50	27		MP180a	Vi 115 VAC†;Vo 1.0V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
5▼	1.5E25	50	27		MP391	Vi 115VAC†;Vo 1.5V;Io 250mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
6▼	1.5E50	50	27		MP392	Vi 115VAC†;Vo 1.5V;Io 500mA;Line Reg .05%;Load Reg .20%;Ripple 500uVrms.
7▼	1.5E100	50	27		MP393	Vi 115VAC†;Vo 1.5V;Io 1.0A;Line Reg .05%,Load Reg .30%;Ripple 1.0mVrms.
8	1.5NT100	50	27		MP180a	Vi 115 VAC†;Vo 1.5V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
9	1.5NT175	50	27		MP180a	Vi 115 VAC†;Vo 1.5V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
10▼	2E20	50	27		MP391	Vi 115VAC†;Vo 2.0V;Io 200mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
11▼	2E40	50	27		MP392	Vi 115VAC†;Vo 2.0V;Io 400mA;Line Reg .05%;Load Reg .20%;Ripple 500uVrms.
12	2NT100	50	27		MP180a	Vi 115 VAC†;Vo 2.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
13	2NT175	50	27		MP180a	Vi 115 VAC†;Vo 2.0V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
14▼	3E25	50	27		MP391	Vi 115VAC†;Vo 3.0V;Io 250mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
15▼	3E50	50	27		MP392	Vi 115VAC†;Vo 3.0V;Io 500mA;Line Reg .05%;Load Reg .20%;Ripple 500uVrms.
16	3NT100	50	27		MP180a	Vi 115 VAC†;Vo 3.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
17	3NT175	50	27		MP180a	Vi 115 VAC†;Vo 3.0V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
18▼	3.6E25	50	27		MP391	Vi 115VAC†;Vo 3.6V;Io 250mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
19▼	3.6E50	50	27		MP392	Vi 115VAC†;Vo 3.6V;Io 500mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
20▼	3.6E100	50	27		MP393	Vi 115VAC†;Vo 3.6V;Io 1.0A;Line Reg .05%;Load Reg .30%;Ripple 1.0mVrms.
21	3.6NT100	50	27		MP180a	Vi 115 VAC†;Vo 3.6V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
22	3.6NT175	50	27		MP180a	Vi 115 VAC†;Vo 3.6V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
23	3.6NT300	50	27		MP180	Vi 115 VAC†;Vo 3.6V;Io 3.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
24▼	4E20	50	27		MP391	Vi 115VAC†;Vo 4.0V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
25▼	4E40	50	27		MP392	Vi 115VAC†;Vo 4.0V;Io 400mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
26	4NT100	50	27		MP180a	Vi 115 VAC†;Vo 4.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
27	4NT175	50	27		MP180a	Vi 115 VAC†;Vo 4.0V;Io 1.75A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
28▼	5E25	50	27		MP391	Vi 115VAC†;Vo 5.0V;Io 250mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
29▼	5E50	50	27		MP392	Vi 115VAC†;Vo 5.0V;Io 500mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
30▼	5E100	50	27		MP393	Vi 115VAC†;Vo 5.0V;Io 1.0A;Line Reg .05%;Load Reg .20%;Ripple 1.0mVrms.
31▼	5E150	50	07		MP393	Vi 115VAC†;Vo 5.0V;Io 1.5A;Line Reg .10%;Load Reg .30%;Ripple 1.0mVrms.
32	5NT100	50	27		MP180a	Vi 115 VAC†;Vo 5.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
33	5NT200	50	27		MP180a	Vi 115 VAC†;Vo 5.0V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
34	5NT400	50	27		MP180	Vi 115 VAC†;Vo 5.0V;Io 4.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
35▼	6E20	50	27		MP391	Vi 115VAC†;Vo 6.0V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
36▼	6E40	50	27		MP392	Vi 115VAC†;Vo 6.0V;Io 400mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
37▼	6E100	50	27		MP393	Vi 115VAC†;Vo 6.0V;Io 1.0A;Line Reg .05%;Load Reg .20%;Ripple 1.0mVrms.
38	6NT100	50	27		MP180a	Vi 115 VAC†;Vo 6.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
39	6NT200	50	27		MP180	Vi 115 VAC†;Vo 6.0V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
40▼	7E17	50	27		MP391	Vi 115VAC†;Vo 7.0V;Io 170mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
41▼	7E34	50	27		MP392	Vi 115VAC†;Vo 7.0V;Io 340mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
42▼	7E90	50	27		MP393	Vi 115VAC†;Vo 7.0V;Io 900mA;Line Reg .05%;Load Reg .20%;Ripple 1.0mVrms.
43	7NT100	50	27		MP180a	Vi 115 VAC†;Vo 7.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
44	7NT200	50	27		MP180	Vi 115 VAC†;Vo 7.0V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
45▼	8E15	50	27		MP391	Vi 115VAC†;Vo 8.0V;Io 150mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
46▼	8E30	50	27		MP392	Vi 115VAC†;Vo 8.0V;Io 300mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
47▼	8E70	50	27		MP393	Vi 115VAC†;Vo 8.0V;Io 700mA;Line Reg .05%;Load Reg .20%;Ripple 1.0mVrms.
48	8NT100	50	27		MP180a	Vi 115 VAC†;Vo 8.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
49	8NT200	50	27		MP180	Vi 115 VAC†;Vo 8.0V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
50▼	9E13	50	27		MP391	Vi 115VAC†;Vo 9.0V;Io 130mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
51▼	9E26	50	27		MP392	Vi 115VAC†;Vo 9.0V;Io 260mA;Line Reg .05%;Load Reg .10%;Ripple 500uVrms.
52▼	9E85	50	27		MP393	Vi 115VAC†;Vo 9.0V;Io 850mA;Line Reg .05%;Load Reg .15%;Ripple 1.0mVrms.
53	9NT100	50	27		MP180a	Vi 115 VAC†;Vo 9.0V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
54	9NT200	50	27		MP180	Vi 115 VAC†;Vo 9.0V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
55▼	10E12	50	27		MP391	Vi 115VAC†;Vo 10V;Io 120mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
56▼	10E24	50	27		MP392	Vi 115VAC†;Vo 10V;Io 240mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
57▼	10E75	50	27		MP393	Vi 115VAC†;Vo 10V;Io 750mA;Line Reg .05%;Load Reg .15%;Ripple 1.0mVrms.
58	10NT100	50	27		MP180a	Vi 115 VAC†;Vo 10V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
59	10NT200	50	27		MP180	Vi 115 VAC†;Vo 10V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
60▼	11E11	50	27		MP391	Vi 115VAC†;Vo 11V;Io 110mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
61▼	11E22	50	27		MP392	Vi 115VAC†;Vo 11V;Io 220mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
62▼	11E60	50	27		MP393	Vi 115VAC†;Vo 11V;Io 600mA;Line Reg .05%;Load Reg .15%;Ripple 1.0mVrms.
63▼	12E10	50	27		MP391	Vi 115VAC†;Vo 12V;Io 100mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
64▼	12E20	50	27		MP392	Vi 115VAC†;Vo 12V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
65▼	12E70	50	27		MP393	Vi 115VAC†;Vo 12V;Io 700mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
66	12NT100	50	27		MP180a	Vi 115 VAC†;Vo 12V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
67	12NT200	50	27		MP180	Vi 115 VAC†;Vo 12V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
68▼	13E10	50	27		MP391	Vi 115VAC†;Vo 13V;Io 100mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
69▼	13E20	50	27		MP392	Vi 115VAC†;Vo 13V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
70▼	13E60	50	27		MP393	Vi 115VAC†;Vo 13V;Io 600mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
71▼	14E10	50	27		MP391	Vi 115VAC†;Vo 14V;Io 100mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
72▼	14E20	50	27		MP392	Vi 115VAC†;Vo 14V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
73▼	14E50	50	27		MP393	Vi 115VAC†;Vo 14V;Io 500mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
74	14NT100	50	27		MP180a	Vi 115 VAC†;Vo 14V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
75	14NT200	50	27		MP180	Vi 115 VAC†;Vo 14V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
76▼	15E10	50	27		MP391	Vi 115VAC†;Vo 15V;Io 100mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
77▼	15E20	50	27		MP392	Vi 115VAC†;Vo 15V;Io 200mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
78▼	15E60	50	27		MP393	Vi 115VAC†;Vo 15V;Io 600mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
79	15NT100	50	27		MP180a	Vi 115 VAC†;Vo 15V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
80	15NT200	50	27		MP180	Vi 115 VAC†;Vo 15V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
81▼	16E08	50	27		MP391	Vi 115VAC†;Vo 16V;Io 80mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
82▼	16E16	50	27		MP392	Vi 115VAC†;Vo 16V;Io 160mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
83▼	16E50	50	27		MP393	Vi 115VAC†;Vo 16V;Io 500mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
84	16NT100	50	27		MP180a	Vi 115 VAC†;Vo 16V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
85	16NT200	50	27		MP180	Vi 115 VAC†;Vo 16V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
86▼	17E07	50	27		MP391	Vi 115VAC†;Vo 17V;Io 70mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
87▼	17E14	50	27		MP392	Vi 115VAC†;Vo 17V;Io 140mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
88▼	17E45	50	27		MP393	Vi 115VAC†;Vo 17V;Io 450mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
89▼	18E06	50	27		MP391	Vi 115VAC†;Vo 18V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
90▼	18E12	50	27		MP392	Vi 115VAC†;Vo 18V;Io 120mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
91▼	18E40	50	27		MP393	Vi 115VAC†;Vo 18V;Io 400mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
92	18NT100	50	27		MP180a	Vi 115 VAC†;Vo 18V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
93	18NT200	50	27		MP180	Vi 115 VAC†;Vo 18V;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
94▼	19E06	50	27		MP391	Vi 115VAC†;Vo 19V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
95▼	19E12	50	27		MP392	Vi 115VAC†;Vo 19V;Io 120mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
96▼	19E40	50	27		MP393	Vi 115VAC†;Vo 19V;Io 400mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
97▼	20E06	50	27		MP391	Vi 115VAC†;Vo 20V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
98▼	20E12	50	27		MP392	Vi 115VAC†;Vo 20V;Io 120mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
99▼	20E40	50	27		MP393	Vi 115VAC†;Vo 20V;Io 400mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
100	20NT100	50	27		MP180a	Vi 115 VAC†;Vo 20V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
101▼	21E06	50	27		MP391	Vi 115VAC†;Vo 21V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
102▼	21E12	50	27		MP392	Vi 115VAC†;Vo 21V;Io 120mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
103▼	21E37	50	27		MP393	Vi 115VAC†;Vo 21V;Io 370mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
104▼	22E05	50	27		MP391	Vi 115VAC†;Vo 22V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
105▼	22E10	50	27		MP392	Vi 115VAC†;Vo 22V;Io 100mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
106▼	22E30	50	27		MP393	Vi 115VAC†;Vo 22V;Io 300mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
107	22NT100	50	27		MP180	Vi 115 VAC†;Vo 22V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
108▼	23E05	50	27		MP391	Vi 115VAC†;Vo 23V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
109▼	23E10	50	27		MP392	Vi 115VAC†;Vo 23V;Io 100mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
110▼	23E30	50	27		MP393	Vi 115VAC†;Vo 23V;Io 300mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.

SYMBOLS AND CODES EXPLAINED IN INTERPRETER

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	24E05	50	27		MP391	Vi 115VACt;Vo 24V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
2▼	24E10	50	27		MP392	Vi 115VACt;Vo 24V;Io 100mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
3▼	24E35	50	27		MP393	Vi 115VACt;Vo 24V;Io 350mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
4	24NT100	50	27		MP180	Vi 115 VACt;Vo 24V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
5▼	25E05	50	27		MP391	Vi 115VACt;Vo 25V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
6▼	25E10	50	27		MP392	Vi 115VACt;Vo 25V;Io 100mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
7▼	25E32	50	27		MP393	Vi 115VACt;Vo 25V;Io 320mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
8▼	26E04	50	27		MP391	Vi 115VACt;Vo 26V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
9▼	26E08	50	27		MP392	Vi 115VACt;Vo 26V;Io 80mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
10▼	26E30	50	27		MP393	Vi 115VACt;Vo 26V;Io 300mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
11	26NT100	50	27		MP180	Vi 115 VACt;Vo 26V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
12▼	27E04	50	27		MP391	Vi 115VACt;Vo 27V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
13▼	27E08	50	27		MP392	Vi 115VACt;Vo 27V;Io 80mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
14▼	27E32	50	27		MP393	Vi 115VACt;Vo 27V;Io 320mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
15▼	28E04	50	27		MP391	Vi 115VACt;Vo 28V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 500uVrms.
16▼	28E08	50	27		MP392	Vi 115VACt;Vo 28V;Io 80mA;Line Reg .05%;Load Reg .05%;Ripple 500uVrms.
17▼	28E30	50	27		MP393	Vi 115VACt;Vo 28V;Io 300mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
18	28NT100	50	27		MP180	Vi 115 VACt;Vo 28V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
19▼	30E08	50	27		MP392	Vi 115VACt;Vo 30V;Io80mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
20	30NT100	50	27		MP180	Vi 115 VACt;Vo 30V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
21▼	32E07	50	27		MP392	Vi 115VACt;Vo 32V;Io 70mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
22	32NT100	50	27		MP180	Vi 115 VACt;Vo 32V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
23▼	34E06	50	27		MP392	Vi 115VACt;Vo 34V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
24	34NT100	50	27		MP180	Vi 115 VACt;Vo 34V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
25▼	35E05	50	27		MP392	Vi 115VACt;Vo 35V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
26▼	36E05	50	27		MP392	Vi 115VACt;Vo 36V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
27	36NT100	50	27		MP180	Vi 115 VACt;Vo 36V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
28▼	38E04	50	27		MP392	Vi 115VACt;Vo 38V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
29	38NT100	50	27		MP180	Vi 115 VACt;Vo 38V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
30▼	40E03	50	27		MP392	Vi 115VACt;Vo 40V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
31▼	40E06	50	27		MP392	Vi 115VACt;Vo 40V;Io 60mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
32	40NT100	50	27		MP180	Vi 115 VACt;Vo 40V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
33▼	42E03	50	27		MP392	Vi 115VACt;Vo 42V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
34	42NT100	50	27		MP180	Vi 115 VACt;Vo 42V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
35▼	44E03	50	27		MP392	Vi 115VACt;Vo 44V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
36	44NT100	50	27		MP180	Vi 115 VACt;Vo 44V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
37▼	45E03	50	27		MP392	Vi 115VACt;Vo 45V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
38	46NT100	50	27		MP180	Vi 115 VACt;Vo 46V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
39▼	48E03	50	27		MP392	Vi 115VACt;Vo 48V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
40▼	48E05	50	27		MP392	Vi 115VACt;Vo 48V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
41	48NT100	50	27		MP180	Vi 115 VACt;Vo 48V;Io 1.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
42▼	50E03	50	27		MP392	Vi 115VACt;Vo 50V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
43▼	50E05	50	27		MP392	Vi 115VACt;Vo 50V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
44▼	55E04	50	27		MP392	Vi 115VACt;Vo 55V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
45▼	60E05	50	27		MP392	Vi 115VACt;Vo 60V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
46▼	65E05	50	27		MP392	Vi 115VACt;Vo 65V;Io 50mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
47▼	70E04	50	27		MP392	Vi 115VACt;Vo 70V;Io 40mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
48▼	75E03	50	27		MP392	Vi 115VACt;Vo 75V;Io 30mA;Line Reg .02%;Load Reg .02%;Ripple 1.0mVrms.
49	400	50	27		MP198	Vi 125VACΔ;Vo ±15VDC;Io 25mA/°Ct;Reg line 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
50	400A	50	27		MP198	Vi 240VACΔ;Vo ±15VDC;Io 25mA;TC 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
51	401	50	27		MP198	Vi 125VACΔ;Vo ±15VDC;Io 50mA;TC 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
52	401A	50	27		MP198	Vi 240VACΔ;Vo ±15VDC;Io 50mA;TC 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
53	402	50	27		MP198	Vi 125VACΔ;Vo ±15VDC;Io 100mA;TC 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
54	402A	50	27		MP198	Vi 240VACΔ;Vo ±15VDC;Io 100mA;TC 20m%/°Ct;Reg line 20m%Δ and load 50m%Δ;Rpl 1.0mVΔ.
55	403	50	27		MP198	Vi 125VACΔ;Vo ±18VDC;Io 50mA;TC 20m%/°Ct;Reg line 200m%Δ and load 200m%Δ;Rpl 1.0mVΔ.
56	403A	50	27		MP198	Vi 240VACΔ;Vo ±18VDC;Io 50mA;TC 20m%/°Ct;Reg line 200m%Δ and load 200m%Δ;Rpl 1.0mVΔ.
57	409	50	27		MP198b	Vi 125VACΔ;Vo 5.0VDC;Io 250mA;TC 20m%/°C;Reg line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
58	409A	50	27		MP198b	Vi 240VACΔ;Vo 5.0VDC;Io 250mA;TC 20m%/°C;Reg line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
59	410Δ	50	27		MP198b	Vi 125VACΔ;Vo 5.0VDC;Io 500mA;TC 20m%/°C;Reg.line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
60	410A	50	27		MP198b	Vi 240VACΔ;Vo 5.0VDC;Io 500mA;TC 20m%/°C;Reg.line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
61	411Δ	50	27		MP198a	Vi 125VACΔ;Vo 5.0VDC;Io 1.0A;TC 20m%/°C;Reg.line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
62	411A	50	27		MP198a	Vi 240VACΔ;Vo 5.0VDC;Io 1.0A;TC 20m%/°C;Reg.line 50m%Δ and load 100m%Δ;Rpl 1.0mV.
63	515	50	07		MP35b	Vi 125V max;ΔVo 30V;Io 20mA;Reg 2.0%;Rpl 20mV.
64	524Δ	50	07		MP35b	Vi 125V max;ΔVo 48V;Io 20mA;Reg 4.0%;Rpl 20mV.
65	524Ø	50	06		MP288a	Vi 250VACΔ;Vo 15VDCt;Io 50mAΔ;Freq. 420HzΔ;Tc 20m%/°CΔ;Line and Load Reg. 200m%/°CΔ.
66	525	50	28		MPØ	Vi 250VACΔ, 47-1.0kHz;Vo±15V;Io 400mAΔ;Reg.line and load .10%Δ;TC .02%/°CΔ.
67	527	50	27		MP116	ΔVi 644Vt;ΔVo±26Vt;ΔIo±60mAt;No 1.0mVΔ;freq 47-420Hz;Tc .005%/Ct;Reg .1%Δ.
68	528Δ	50	07		MP35b	Vi 125V max;ΔVo 60V;Io 20mA;Reg 30%;Rpl 600mV.
69	541	50	48		MP288a	Vi 250 VACΔ,47-1.0kHz;Vo±15V;Io 240mAΔ;Reg line and load .10%Δ,TC .02%/°CΔ.
70	550	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo±15V;Io 50mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
71	551	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo±15V;Io 100mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
72	552	50	27		MP285a	Vi 125 VACΔ, 50-400Hz;Vo±15V;Io 200mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
73	553	50	27		MP285a	Vi 125 VACΔ, 50-400Hz;Vo±15V;Io 400mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
74	560	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo 5.0V;Io 250mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
75	561	50	27		MP285a	Vi 125 VACΔ, 50-400Hz;Vo 5.0V;Io 500mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
76	562	50	27		MP285a	Vi 125 VACΔ, 50-400Hz;Vo 5.0V;Io 1.0AΔ;Reg.line and load .05%Δ;TC .04/°CΔ.
77	570	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo±12V;Io 200mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
78	571	50	27		MP285a	Vi 125VACΔ,50-400Hz;Vo±18V;Io 130mAΔ;Reg line and load .05%Δ;TC .04%/°CΔ.
79	572	50	27		MP285a	Vi 125 VACΔ, 50-400Hz;Vo±26V;Io 100mAΔ;Reg.line and load .05%Δ;TC .04%/°CΔ.
80	580	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo 10V;Io 120mAΔ;Reg.line and load .02%Δ;TC .02%/°CΔ.
81	581	50	27		MP285	Vi 125 VACΔ, 50-400Hz;Vo 12V;Io 100mAΔ;Reg.line and load .02%Δ;TC .02%/°CΔ.
82	892	50	28		MPØ	Vi 115V;ΔVo±15V;Io 100mA;Line and Load Reg .02%.
83	902	50	07		MP81	Vi 115VACt;Vo±15V at 0.0 to 100mAt;TC 15m%/°CΔ;Reg. line 50m%Δ, load 100m%Δ.
84	902E	50	07		MP81	Vi 220VACt;Vo±15V at 0.0 to 100mAt;TC 15m%/°CΔ;Reg. line 50m%Δ, load 100m%Δ.
85	903	50	07		MP81a	Vi 115VACt;Vo 5.0V at 0.0 to 500mAt;TC 20m%/°CΔ;Reg.line 150m%Δ, load 300m%Δ.
86	903E	50	07		MP81a	Vi 220VACt;Vo 5.0V at 0.0 to 500mAt;TC 20m%/°CΔ;Reg.line 150m%Δ, load 300m%Δ.
87	904	50	07		MP81b	Vi 115VACt;Vo±15V at 0.0 to 50mAt;TC 30m%/°CΔ;Reg. line 100m%Δ, load 100m%Δ.
88	904E	50	07		MP81b	Vi 220VACt;Vo±15V at 0.0 to 50mAt;TC 30m%/°CΔ;Reg. line 100m%Δ, load 100m%Δ.
89▼	1784	50	07		MP397	Dual;Vi 115VACt;Vo ±15V;Io 100mA;Line Reg .05%;Load Reg .1%.
90	2203	50				Vi 115/230VAC ±10%;Vo ±15 at ±100mA;Reg ±0.03%;TC ±0.01%/°C.
91	2204	50				Vi 115/230VAC ±10%;Vo ±15 at ±50mA;Reg ±0.03%;TC ±0.01%/°C.
92	2206	50				Vi 115/230VAC ±10%;Vo Pos 5.0V at Pos 500mA;Reg ±0.15%;TC ±0.01%/°C.
93	2207	50				Vi 115VAC ±10%;Vo ±15 at ±500mA;Reg ±0.05%;TC ±0.03%/°C.
94	2208	50				Vi 115VAC ±10%;Vo ± 15 at ±100mA;Reg ±0.03%;TC ±0.01%/°C.
95	2209	50				Vi 115VAC ±10%;Vo ±15 at ±50mA;Reg ±0.03%;TC ±0.01%/°C.
96	2210	50				Vi 115VAC ±10%;Vo ±15 at ±25mA;Reg ±0.2%;TC ±0.02%/°C.
97	2211	50				Vi 115VAC ±10%;Vo ±15 at ±50mA;Reg ±0.1%;TC ±0.015%/°C.
98	2212	50				Vi 115VAC ±10%;Vo ±15 at ±100mA;Reg ±0.1%;TC ±0.015%/°C.
99	2213	50				Vi 115VAC ±10%;Vo Pos 5.0V at ±1.0A;Reg ±0.1%;TC ±0.02%/°C.
100	2215	50				Vi 115VAC ±10%;Vo ±15 at ±200mA;Reg ±0.05%;TC ±0.02%/°C.
101	2216	50				Vi 115VAC ±10%;Vo ±26 at ±45mA;Reg ±0.05%;TC ±0.02%/°C.
102	2217	50				Vi 115VAC ±10%;Vo ±120 at 30mA;Reg ±0.01%;TC ±0.05%/°C.
103	8400	50	27		MP253a	115VAC;Vo ±15V;Io 200mA;Line and Load Reg .02%.
104	8410	50	27		MP312	115VAC;Vo ±15V;Io 25mA;Line and Load Reg .25%.
105▼	8430	50	27		MP81	115VAC;VO ±15V;Io 100mA;Line and Load Reg .02%.
106	220721	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at ±500mA;Reg ±0.05%;TC ±0.03%/°C.
107	220821	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at ±100mA;Reg ±0.03%;TC ±0.01%/°C.
108	220921	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at ±50mA;Reg ±0.03%;TC 0.01%/°C.
109	221021	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at 25mA;Reg ±0.2%;TC ±0.02%/°C.
110	221121	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at 50mA;Reg ±0.1%;TC ±0.015%/°C.

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	221221	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at ±100mA;Reg ±0.1%;TC ±0.015%/°C.
2	221321	50				Vi 230VAC ±10% at 50-400Hz;Vo Pos 5.0V at ±1.0A;Reg ±0.1%;TC ±0.02%/°C.
3	221521	50				Vi 230VAC ±10% at 50-400Hz;Vo ±15 at ±200mA;Reg ±0.05%;TC ±0.02%/°C.
4	221621	50				Vi 230VAC ±10% at 50-400Hz;Vo ±26 at ±45mA;Reg ±0.05%;TC ±0.02%/°C.
5	221721	50				Vi 230VAC ±10% at 50-400Hz;Vo ±120 at ±30mA;Reg ±0.01%;TC ±0.05%/°C.
6	A902	50	07			Vi 125VACΔ;Vo ±15V;Freq. 50-400Hz;Tc 15m%/°C;Line Reg .015%Δ;Load Reg .03Δ.
7	A903	50	07			Vi 125VACΔ;Vo 5.0V;Freq 50-400Hz;Tc 15m%/°C;Line Reg .20%Δ;Load Reg .20%Δ.
8	A904	50	07			Vi 125VACΔ;Vo ±15V;Freq 50-400Hz;Tc 15m%/°C;Line Reg .015%Δ;Load Reg .03Δ.
9	A905	50	07			Vi 125VACΔ;Vo 5.0V;Freq 50-400Hz;Tc 15m%/°C;Line Reg .015%Δ;Load Reg .20%Δ.
10	A955	50	07		MP257	Vi 125VmsΔ;Vo±15V;Freq 50-400Hz;Tc 15m%/°C;Line Reg .05%Δ;Load Reg .10%Δ
11▼	D12-03	50	27		MP391	Vi 115VACt;Vo 12V;Io 25mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
12▼	D12-05	50	27		MP391	Vi 115VACt;Vo 12V;Io 50mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
13▼	D12-10A	50	27		MP393b	Vi 115VACt;Vo 12V;Io 100mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
14▼	D12-15A	50	27		MP393b	Vi 115VACt;Vo 12V;Io 150mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
15▼	D12-30	50	27		MP393a	Vi 115VACt;Vo 12V;Io 300mA;Line Reg .05%;Load Reg .05%;Ripple 1.0mVrms.
16▼	D12-35	50	27		MP393a	Vi 115VACt;Vo 12V;Io 350mA;Line Reg .05%;Load Reg .05%;Ripple 1.0mVrms.
17▼	D15-03	50	27		MP391	Vi 115VACt;Vo 15V;Io 25mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
18▼	D15-05	50	27		MP391	Vi 115VACt;Vo 15V;Io 50mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
19▼	D15-10A	50	27		MP393b	Vi 115VACt;Vo 15V;Io 100mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
20▼	D15-15A	50	27		MP393b	Vi 115VACt;Vo 15V;Io 150mA;Line Reg .05%;Load Reg .10%;Ripple 1.0mVrms.
21▼	D15-30	50	27		MP393a	Vi 115VACt;Vo 15V;Io 300mA;Line Reg .05%;Load Reg .05%;Ripple 1.0mVrms.
22▼	D15-35	50	27		MP393a	Vi 115VACt;Vo 15V;Io 350mA;Line Reg .05%;Load Reg .05%;Ripple 1.0mVrms.
23	EE5S200	50	27		MP274	Vi 115VACt;Vo 5.0V;Io 200mA;Freq50-440Hz;Reg.Line.25% and Load.25%Δ;TC.02%/°Ct;Rpl 2mVrmsΔ
24	EE5S200E	50	27		MP274	Vi 220VACt;Vo 5.0V;Io 200mA;Freq50-440Hz;Reg.Line .25% and Load.25%Δ;TC.02%/°Ct;Rpl2mVrmsΔ
25	EE5S200EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo 5.0V;Io 200mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
26	EE5S200G	50	27		MP274	Vi 115Vact,50-440Hz;Vo 5.0V;Io 200mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
27	EE5S250	50	27		MP274	Vi 115Vact,50-440Hz;Vo 5.0V;Io 250mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
28	EE5S250E	50	27		MP274	Vi 220Vact,50-440Hz;Vo 5.0V;Io 250mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
29	EE5S250EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo 5.0V;Io 250mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
30	EE5S250G	50	27		MP274	Vi 115Vact,50-440Hz;Vo 5.0V;Io 250mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
31	EE5S500	50	27		MP273	Vi 115Vact,50-440Hz;Vo 5.0V;Io 500mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
32	EE5S500E	50	27		MP273	Vi 220Vact,50-440Hz;Vo 5.0V;Io 500mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
33	EE5S1000	50	27		MP273a	VI 115VACt;Freq.Range 50-440Hz;VO 5Vdc at 1.0A;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
34	EE5S1000E	50	27		MP273a	VI 220VACt;Freq.Range 50-440Hz;VO 5Vdc at 1.0A;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
35	EE10S100	50	27		MP274	Vi 115Vact,50-440Hz;Vo 10V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
36	EE10S100E	50	27		MP274	Vi 220Vact,50-440Hz;Vo 10V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
37	EE10S100EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo 10V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
38	EE10S100G	50	27		MP274	Vi 115Vact,50-440Hz;Vo 10V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
39	EE12D25	50	27		MP274	Vi 115VACt;Vo±12V;Io 25mA;Freq 50-440Hz;Reg.Line .25% and Load.25%Δ;TC.02%†;Rpl 2.0mVrmsΔ
40	EE12D25E	50	27		MP274	Vi 220VACt;Vo±12V;Io 25mA;Freq50-440Hz;Reg.Line.25% and Load.25%Δ;TC.02%/°Ct;Rpl2.0mVrmsΔ
41	EE12D25EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo±12V;Io 25mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
42	EE12D25G	50	27		MP274	Vi 115Vact,50-440Hz;Vo±12V;Io 25mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
43	EE12D50	50	27		MP274	Vi 115Vact,50-440Hz;Vo±12V;Io 50mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
44	EE12D50E	50	27		MP274	Vi 220Vact,50-440Hz;Vo±12V;Io 50mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
45	EE12D50EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo±12V;Io 50mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
46	EE12D50G	50	27		MP274	Vi 115Vact,50-440Hz;Vo±12V;Io 50mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
47	EE12D100	50	27		MP273	Vi 115Vact,50-440Hz;Vo±12V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
48	EE12D100E	50	27		MP273	Vi 220Vact,50-440Hz;Vo±12V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
49	EE12D200	50	27		MP273a	Vi 115Vact,50-440Hz;Vo±12V;Io 200mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
50	EE12D200E	50	27		MP273a	Vi 220Vact,50-440Hz;Vo±12V;Io 200mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
51	EE12S100	50	27		MP274	Vi 115Vact,50-440Hz;Vo 12V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
52	EE12S100E	50	27		MP274	Vi 220Vact,50-440Hz;Vo 12V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
53	EE12S100EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo 12V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
54	EE12S100G	50	27		MP274	Vi 115Vact,50-440Hz;Vo 12V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
55	EE15D25	50	27		MP274	Vi 115VACt;Vo±15V;Io 25mA;Freq 50-440Hz;Reg.Line.25% and Load.25%Δ;TC.02%/°Ct;Rpl2.0mVrmsΔ
56	EE15D25E	50	27		MP274	Vi 220VACt;Vo±15V;Io 25mA;Freq50-440Hz;Reg.Line.25% and Load.25%Δ;TC.02%/°Ct;Rpl2.0mVrmsΔ
57	EE15D25EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo±15V;Io 25mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
58	EE15D25G	50	27		MP274	Vi 115Vact,50-440Hz;Vo±15V;Io 25mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
59	EE15D50	50	27		MP274	Vi 115Vact,50-440Hz;Vo±15V;Io 50mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
60	EE15D50E	50	27		MP274	Vi 220Vact,50-440Hz;Vo±15V;Io 50mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
61	EE15D50EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo±15V;Io 50mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
62	EE15D50G	50	27		MP274	Vi 115Vact,50-440Hz;Vo±15V;Io 50mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
63	EE15D100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 100mA;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
64	EE15D100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±15Vdc at 100mA;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
65	EE15D200	50	27		MP273a	VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 200mA;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
66	EE15D200E	50	27		MP273a	VI 220VACt;Freq.Range 50-440Hz;VO ±15Vdc at 200mA;Reg.Line .25%,Load .25%;Noise 2.0mVrms.
67	EE15S100	50	27		MP274	Vi 115Vact,50-440Hz;Vo 15V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
68	EE15S100E	50	27		MP274	Vi 220Vact,50-440Hz;Vo 15V;Io 100mA;Reg Line and Load .25%;TC .02%/°C;Rpl 2.0mVrms.
69	EE15S100EG	50	27		MP274	Vi 220Vact,50-440Hz;Vo 15V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
70	EE15S100G	50	27		MP274	Vi 115Vact,50-440Hz;Vo 15V;Io 100mA;Reg Line .01%,Load .05%;TC .02%/°C;Rpl 1.0mVrms.
71	L5S500	50	27		MP304	Vi 115VACt;Freq.Range 50-440Hz;Vo 5Vdc at 500mA;Reg Line .05%,Load .10%;Noise 2.0mVrms.
72	L5S1000	50	27		MP304	Vi 115VACt;Freq.Range 50-440Hz;Vo 5Vdc at 1.0A;Reg Line .05%,Load .10%;Noise 2.0mVrms.
73	L15D100	50	27			VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 100mA;Reg.Line .05%,Load .10%;Noise 2.0mVrms.
74	L15D200	50	27			VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 200mA;Reg.Line .05%,Load .10%;Noise 2.0mVrms.
75	LCD1.5.1000	50	27		MP198g	ΔVi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 1.0A;Line and Load Reg .20%♦;T.C. 02%/°C.
76	LCD1.5.1000K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 1.0A;Line and Load Reg .20%♦;T.C. .02%/°C.
77	LCD1.5.500	50	27		MP198f	ΔVi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 500mA;Line and Load Reg .20%♦;T.C. .02%/°C.
78	LCD1.5.500K	50	27		MP198f	Vi 220V;Freq 50-440Hz;Vo ±5.0V;Io 500mA;Line and Load Reg .20%♦;T.C. .02%/°C.
79	LCD2.12.100	50	27		MP198	Vi 115VACt,50-440Hz;Vo±12V;Io 100mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
80	LCD2.12.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±100mA;Line and Load Reg .20%♦;T.C. .02%/°C.
81	LCD2.12.200	50	27		MP198c	Vi 105-125V;Freq 50-440Hz;Vo ±12V;Io ±200mA;Line and Load Reg .20%♦;T.C. .02%/°C.
82	LCD2.12.200K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±200mA;Line and Load Reg .20%♦;T.C. .02%/°C.
83	LCD2.15.100	50	27		MP198	Vi 115VACt,50-440Hz;Vo±15V;Io 100mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
84	LCD2.15.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±100mA;Line and Load Reg .20%♦;T.C. .02%/°C.
85	LCD2.15.200	50	27		MP198c	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±200mA;Line and Load Reg .20%♦;T.C. .02%/°C.
86	LCD2.15.200K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±200mA;Line and Load Reg .20%♦;T.C. .02%/°C.
87	LCD2.15.25	50	27		MP198	Vi 115VACt,50-440Hz;Vo±15V;Io 25mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
88	LCD2.15.25K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±25mA;Line and Load Reg .20%♦;T.C. .02%/°C.
89	LCD2.15.50	50	27		MP198	Vi 115VACt,50-440Hz;Vo±15V;Io 50mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
90	LCD2.15.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±50mA;Line and Load Reg .20%♦;T.C. .02%/°C.
91	LCD2.18.50	50	27		MP198	Vi 115VACt,50-440Hz;Vo±18V;Io 50mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
92	LCD2.18.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±18V;Io ±50mA;Line and Load Reg .20%♦;T.C. .02%/°C.
93	LCD2.24.50	50	27		MP198	Vi 115VACt,50-440Hz;Vo±24V;Io 50mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
94	LCD2.24.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±24V;Io ±50mA;Line and Load Reg .20%♦;T.C. .02%/°C.
95	LCD2.5.500	50	27		MP198c	ΔVi 105-125V;Freq 50-440Hz;Vo ±500mA;Line and Load Reg .20%♦;T.C. .02%/°C.
96	LCD2.5.500K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±5.0V;Io 500mA;Line and Load Reg .20%♦;T.C. .02%/°C.
97	LCD2.6.50	50	27		MP198	Vi 115VACt,50-440Hz;Vo±6V;Io 50mA;Reg.load and line .2%;TC .02%/°Ct;Rpl 1.0mVrms.
98	LCD2.6.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±6.0V;Io ±50mA;Line and Load Reg .20%♦;T.C. .02%/°C.
99	M50-15	50	26		MP81b	Vo ±15;Vi 50mA;Reg. .02% line; .05% load;Rpl 2.0mV.
100	M100-15	50	26		MP81b	Vo ±15;Vi 100mA;Reg. .02% line; .05% load;Rpl 2.0mV.
101	M500-5	50	26		MP81b	Vo 5.0;Vi 500mA;Reg .05% line; .10% load;Rpl 4.0mV.
102	MP1.5.1000-2.12.100	50	27		MP365b	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io1.0A or Vo±12V,Io±100mA;Reg.Line.01%max,Load.05%♦max.
103	MP1.5.1000-2.15.100	50	27		MP365b	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io1.0A or Vo±15V,Io100mA;Reg.Line.01%max,Load.05%max♦.
104	MP1.5.225-2.12.40	50	27		MP365	Vi 105-125V;Freq50-440Hz;Vo5.0V;Io225mA or Vo±12V;Io±40mA;Reg.Line.01%max,Load.05%♦max.
105	MP1.5.225-2.15.40	50	27		MP365	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io225mA or Vo±15V,Io±40mA;Reg.Line.01%max,Load.05%max♦.

LINE No.	[2] TYPE No.	[1] USE	TC EMP	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
			-+			
1	MP1.5.300-2.12.150	50	27		MP365a	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io330mA or Vo±12V,Io±150mA;Reg.Line.01%max,Load.05%♦max.
2	MP1.5.300-2.15.150	50	27		MP365a	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io300mA or Vo±15V,Io150mA;Reg.Line.01%max,Load.05%max♦.
3	MP1.5.500-2.12.100	50	27		MP365a	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io500mA or Vo±12V,Io±100mA;Reg.Line.01%max,Load.05%♦max.
4	MP1.5.500-2.15.100	50	27		MP365a	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io500mA or Vo±15V,Io100mA;Reg.Line.01%max,Load.05%max♦.
5	MP1.5.750-2.12.150	50	27		MP365b	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io750mA or Vo±12V,Io±150mA;Reg.Line.01%max,Load.05%♦max.
6	MP1.5.750-2.15.150	50	27		MP365b	Vi 105-125V;Freq50-440Hz;Vo5.0V,Io750mA or Vo±15V,Io150mA;Reg.Line.01%max,Load.05%max♦.
7	MPD5-150A	50	57		MP133	Vi 115VAC†;Vo 5.0V at 600mA† or 150V at 5.0mA†;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
8	MPD5-750A	50	57		MP133	Vi 115VAC†;Vo 5.0V at 750mA†;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
9	MPD15-100A	50	57		MP134	Vi 115VAC†;Vo±15V at 100mA†;TC 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
10	MPD15-300A	50	57		MP135	Vi 115VAC†;Vo±15V at 300mA†;TC 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
11	NT008	50	27		MP180	Vi 115 VAC†;ΔVo 0.0-8.0;Io 2.0A;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
12	NT010	50	27		MP180a	Vi 115 VAC†;ΔVo 0.0-10;Io 750mA;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
13	NT015	50	27		MP180a	Vi 115 VAC†;ΔVo 0.0-15;Io 500mA;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
14	NT025	50	27		MP180	Vi 115 VAC†;ΔVo 0.0-25;Io 750mA;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
15	NT040	50	27		MP180	Vi 115 VAC†;ΔVo 0.0-40;Io 500mA;Freq. 60-420Hz;Line Reg. .005%;Load Reg. .005%.
16	P1.10.200	50	27		MP198g	ΔVi 105-125V;Freq 50-440Hz;Vo 10V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
17	P1.10.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 10V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
18	P1.12.400	50	27		MP198g	ΔVi 105-125V;Freq 50-440Hz;Vo 12V;Io 400mA;Reg Line .01% max;Load .05% max♦;T.C. .02%/°C.
19	P1.12.400K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 12V;Io 400mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
20	P1.15.400	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 15V;Io 400mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
21	P1.15.400K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 15V;Io 400mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
22	P1.18.100	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 18V;Io 100mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
23	P1.18.100K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 18V;Io 100mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
24	P1.18.200	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 18V;Io 200mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
25	P1.18.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 18V;Io 200mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
26	P1.200.25	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 200V;Io 25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
27	P1.200.25K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 200V;Io 25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
28	P1.22.100	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 22V;Io 100mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
29	P1.22.100K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 22V;Io 100mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
30	P1.22.200	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 22V;Io 200mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
31	P1.22.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 22V;Io 200mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
32	P1.24.100	50	27		MP198f	Vi 105-125V;Freq 50-440Hz;Vo 24V;Io 100mA;Reg Line .01%Δ,Load .05% max♦;T.C. .02%/°C.
33	P1.24.100K	50	27		MP198f	Vi 220V;Freq 50-440Hz;Vo 24V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
34	P1.24.200	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 24V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
35	P1.24.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 24V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
36	P1.28.100	50	27		MP198f	Vi 105-125V;Freq 50-440Hz;Vo 28V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
37	P1.28.100K	50	27		MP198f	Vi 220V;Freq 50-440Hz;Vo 28V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
38	P1.28.200	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 28V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
39	P1.28.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 28V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
40	P1.30.100	50	27		MP198f	Vi 105-125V;Freq 50-440Hz;Vo 30V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
41	P1.30.100K	50	27		MP198f	Vi 220V;Freq 50-440Hz;Vo 30V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
42	P1.30.200	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 36V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
43	P1.30.200K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 36V;Io 200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
44	P1.36.100	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 36V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
45	P1.36.100K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 36V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
46	P1.48.100	50	27		MP198g	Vi 105-125V;Freq 50-440Hz;Vo 48V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
47	P1.48.100K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 48V;Io 100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
48	P1.5.1000	50	27		MP198a	Vi 115VAC†,50-440Hz;Vo 5.0V;Io 1000mA;Reg load .1%,line .05%;TC .02%/°C†;Rpl 1.0mVrms.
49	P1.5.1000K	50	27		MP198g	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 1.0A;Line and Load Reg .05% max♦;T.C. .02%/°C.
50	P1.5.1500	50	27		MP198h	ΔVi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 1.5A;Line and Load Reg .05% max♦;T.C. .02%/°C.
51	P1.5.1500K	50	27		MP198h	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 1.5A;Line and Load Reg .05% max♦;T.C. .02%/°C.
52	P1.5.2000	50	27		MP198h	ΔVi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 2.0A;Line and Load Reg .05% max♦;T.C. .02%/°C.
53	P1.5.2000K	50	27		MP198h	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 2.0A;Line and Load Reg .05% max♦;T.C. .02%/°C.
54	P1.5.500	50	27		MP198b	Vi 115VAC†,50-440Hz;Vo 5.0V;Io 500mA;Reg load .1%,line .05%;TC .02%/°C†;Rpl 1.0mVrms.
55	P1.5.500K	50	27		MP198f	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 500mA;Line and Load Reg .05% max♦;T.C. .02%/°C.
56	P2.10.100	50	27		MP198	Vi 105-125V;Freq 50-440Hz;Vo ±10V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
57	P2.10.100J	50	27		MP231	Vi 115VAC†,50-440Hz;Vo±10V;Io 100mA;Reg load .05%,line .01%;Isol 100GΩ*;Ileakage 5.0uAΔ.
58	P2.10.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±10V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
59	P2.12.100	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±12V;Io 100mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
60	P2.12.100-6.100	50	27		MP198	Vi 115VAC†,50-440Hz;Vo 12,-6.0;Io 100mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0VrmsΔ.
61	P2.12.100-6.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±18V§;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
62	P2.12.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
63	P2.12.200	50	27		MP198c	Vi 115VAC†,50-400Hz;Vo±12V;Io 200mA;Reg load .05%,line .01%;TC.02%/°C†;Rpl 1.0mVrms.
64	P2.12.200K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
65	P2.12.25	50	27		MP198	Vi 105-125V;Freq 50-440Hz;Vo ±12V;Io ±25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
66	P2.12.25K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
67	P2.12.300	50	27		MP198j	Vi 105-125V;Freq 50-440Hz;Vo ±12V;Io ±300mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
68	P2.12.300K	50	27		MP198j	Vi 220V;Freq 50-440Hz;Vo ±12V;Io ±300mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
69	P2.12.50-6.50	50	27		MP198	Vi 115VAC†,50-440Hz;Vo 12,-6.0;Io 50mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
70	P2.12.50-6.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±18V§;Io ±50mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
71	P2.12.60	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±12V;Io 60mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
72	P2.15.100	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±15V;Io 100mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
73	P2.15.100J	50	27		MP231	Vi 115VAC†,50-440Hz;Vo±15V;Io 100mA;Reg load .05%,line .01%;Isol 100GΩ*;Ileakage 5.0uAΔ.
74	P2.15.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
75	P2.15.200	50	27		MP198c	Vi 115VAC†,50-400Hz;Vo±15V;Io 200mA;Reg load .05%,line .01%;TC .02%/°C†;Rpl 1.0mVrms.
76	P2.15.200K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±200mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
77	P2.15.25	50	27		MP198	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
78	P2.15.25K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±25mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
79	P2.15.300	50	27		MP198j	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±300mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
80	P2.15.300K	50	27		MP198j	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±300mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
81	P2.15.50J	50	27		MP231	Vi 115VAC†,50-440Hz;Vo±15V;Io 50mA;Reg load .05%,line .01%;Isol 100GΩ*;Ileakage 5.0uAΔ.
82	P2.15.60	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±15V;Io 60mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
83	P2.15.60K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±60mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
84	P2.18.100	50	27		MP198c	Vi 115VAC†,50-400Hz;Vo±18V;Io 100mA;Reg load .05%,line .01%;TC .02%/°C†;Rpl 1.0mVrms.
85	P2.18.100K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±18V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
86	P2.18.50	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±18V;Io 50mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
87	P2.24.100	50	27		MP198c	vi 115VAC†,50-400Hz;Vo±24V;Io 100mA;Reg load .05%,line .01%;TC .02%/°C†;Rpl 1.0mVrms.
88	P2.24.100K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±24V;Io ±100mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
89	P2.24.50	50	27		MP198	Vi 115VAC†,50-440Hz;Vo±24V;Io 50mA;Reg load .05%,line .01%;TC .015%/°C†;Rpl 1.0mVrmsΔ.
90	P2.24.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±24V;Io ±50mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
91	P2.5.250-12.100	50	27		MP198	Vi 105-125V;Freq 50-440Hz;Vo ±17V§;Io ±350mA§;Reg Line .01% max,Load .05%max♦;T.C. .02%/°C
92	P2.5.250-12.100K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±17V§;Io ±350mA§;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
93	P2.5.500-12.200	50	27		MP198c	Vi 105-125V;Freq 50-440Hz;Vo ±17V§;Io ±700mA§;Reg Line .01%max,Load .05%max♦;T.C. .02%/°C
94	P2.5.500-12.200K	50	27		MP198c	Vi 220V;Freq 50-440Hz;Vo ±17V§;Io ±700mA§;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
95	P2.6.50	50	27		MP198	Vi 105-125V;Freq 50-440Hz;Vo ±6.0V;Io ±50mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
96	P2.6.50K	50	27		MP198	Vi 220V;Freq 50-440Hz;Vo ±6.0V;Io ±50mA;Reg Line .01% max,Load .05% max♦;T.C. .02%/°C.
97	P741-1012	50	27		MP198d	Vi 115VAC;Vo ±12V;Io 100mA;Freq 40-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
98	P741-1012K	50	27		MP198d	Vi 220VAC;Vo ±12V;Io 100mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
99	P741-1015	50	27		MP198d	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
100	P741-1015K	50	27		MP198d	Vi 220VAC;Vo ±15V;Io 100mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
101	P741-5005S	50	27		MP198e	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
102	P741-5005SK	50	27		MP198e	Vi 220VAC;Vo 5.0V;Io 500mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC.02%/°C;Rpl 1.0mVrms
103▼	PM302	50	27		MP390	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Line and Load Reg .05%;RPL 1.0mVRMS.
104▼	PM322	50	27		MP390	Vi 115VAC;Vo 6.0V;Io 200mA;Freq 50-400Hz;TC .02%/°C;Reg Line .05%,Load .10%;RPL 1.0mVRMS.

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	PM329	50	27		MP390	Vi 115VAC;Vo 5.0V;Io 250mA;Freq 50-400Hz;TC .02%/°C;Reg Line .05%,Load .10%;RPL 2.0mVRMS.
2▼	PM334	50	27		MP390	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-400Hz;TC .02%/°C;Reg Line .05%,Load .10%;RPL 2.0mVRMS.
3▼	PM336	50	27		MP390	Vi 115VAC;Vo ±12V;Io 120mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
4▼	PM337	50	27		MP390	Vi 115VAC;Vo ±12V;Io 240mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
5▼	PM342	50	27		MP390	Vi 115VAC;Vo 5.0V;Io 1000mA;Freq 50-400Hz;TC .02%/°C;Reg Line .05%,Load .15%;RPL 2.0mVRMS.
6▼	PM353	50	27		MP390	Vi 115VAC;Vo ±15V;Io 65mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
7▼	PM363	50	27		MP390	Vi 115VAC;Vo 12.0V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
8▼	PM365	50	27		MP390	Vi 115VAC;Vo ±15V;Io 200mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
9▼	PM376	50	27		MP390	Vi 115VAC;Vo 15.0V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
10▼	PM385	50	27		MP390	Vi 115VAC;Vo 24.0V;Io 50mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
11▼	PM501	50	27		MP387d	Vi 115VAC;Vo ±15V;Io 350mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
12♦	PM502	50	27		MP387b	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
13▼	PM503	50	27		MP387b	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-400Hz;TC 20m%/°C;Reg Line .02%,Load .04%;RPL 1.0mVRMS.
14▼	PM504	50	27		MP388	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
15▼	PM505	50	27		MP387	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
16▼	PM506	50	27		MP388	Vi 115VAC;Vo ±15V;Io 65mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
17♦	PM508	50	27		MP94	Vi 115VAC;Vo 5.0V;Io 125mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .05%;RPL 500uVRMS.
18▼	PM509	50	27		MP387	Vi 115VAC;Vo ±12V;Io 25mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .20%;RPL 2.0mVRMS.
19▼	PM510	50	27		MP387	Vi 115VAC;Vo ±12V;Io 50mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .02%;RPL 500uVRMS.
20▼	PM511	50	27		MP387	Vi 115VAC;Vo ±18V;Io 25mA;Freq 50-400Hz;TC 20m%/°C;Reg Line and Load .20%;RPL 2.0mVRMS.
21▼	PM512	50	27		MP387	Vi 115VAC;Vo ±18V;Io 50mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
22▼	PM513	50	27		MP387b	Vi 115VAC;Vo ±18V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
23▼	PM514	50	27		MP387b	Vi 115VAC;Vo ±24V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
24▼	PM521	50	27		MP388d	Vi 115VAC;Vo ±15V;Io 350mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
25♦	PM522	50	27		MP94	Vi 115VAC;Vo 6.0V;Io 200mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 500uVRMS.
26▼	PM523	50	27		MP387	Vi 115VAC;Vo 12.0V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
27♦	PM524	50	27		MP388a	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .04%;RPL 1.0mVrms.
28♦	PM526	50	27		MP95	Vi 115VAC;Vo ±12V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
29♦	PM529	50	27		MP94	Vi 115VAC;Vo 5.0V;Io 250mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 500uVRMS.
30▼	PM531	50	27		MP387	Vi 115VAC;Vo ±24V;Io 50mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
31♦	PM532	50	27		MP388c	Vi 115VAC;Vo 5.0V;Io 1000mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .04%;RPL 1.0mVRMS.
32▼	PM533	50	27		MP387a	Vi 115VAC;Vo 5.0V;Io 250mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .04%;RPL 1.0mVRMS.
33▼	PM534	50	27		MP387a	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .04%;RPL 1.0mVRMS.
34▼	PM536	50	27		MP387	Vi 115VAC;Vo ±12V;Io 120mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
35▼	PM537	50	27		MP387b	Vi 115VAC;Vo ±12V;Io 240mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
36♦	PM538	50	27		MP387	Vi 115VAC;Vo ±15V;Io 25mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .20%;RPL 2.0mVRMS.
37▼	PM542	50	27		MP387c	Vi 115VAC;Vo 5.0V;Io 1000mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .04%;RPL 1.0mVRMS.
38♦	PM544	50	27		MP94	Vi 115VAC;Vo 3.6V;Io 250mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 500uVRMS.
39▼	PM545	50	27		MP387e	Vi 115VAC;Vo 5.0V;Io 2000mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .05%;RPL 1.0mVRMS.
40▼	PM547	50	27		MP387	Vi 115VAC;Vo 10.0V;Io 120mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
41♦	PM552	50	27		MP95	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
42▼	PM553	50	27		MP387	Vi 115VAC;Vo ±15V;Io 65mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
43▼	PM558	50	27		MP388	Vi 115VAC;Vo ±15V;Io 25mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .20%;RPL 2.0mVRMS.
44♦	PM559	50	27		MP388b	Vi 115VAC;Vo ±15V;Io 200mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
45♦	PM560	50	27		MP93	Vi 115VAC;Vo 18.0V;Io 65mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
46♦	PM562	50	27		MP93	Vi 115VAC;Vo 28.0V;Io 40mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
47♦	PM563	50	27		MP93	Vi 115VAC;Vo 12.0V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
48▼	PM565	50	27		MP387b	Vi 115VAC;Vo ±15V;Io 200mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
49♦	PM570	50	27		MP387b	Vi 115VAC;Vo ±15V;Io 150mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
50♦	PM574	50	27		MP93	Vi 115VAC;Vo 20.0V;Io 60mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
51♦	PM576	50	27		MP93	Vi 115VAC;Vo 15.0V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
52♦	PM585	50	27		MP93	Vi 115VAC;Vo 24.0V;Io 50mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 1.0mVRMS.
53♦	PM587	50	27		MP93	Vi 115VAC;Vo 10.0V;Io 120mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
54▼	PM588	50	27		MP387b	Vi 115VAC;Vo ±26V;Io 50mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
55♦	PM593	50	27		MP95	Vi 115VAC;Vo ±10V;Io 120mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
56▼	PM595	50	27		MP388e	Vi 115VAC;Vo 5.0V;Io 2000mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .05%;RPL 1.0mVRMS.
57▼	PM597	50	27		MP387d	Vi 115VAC;Vo ±12V;Io 400mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .02%;RPL 500uVRMS.
58▼	PM598#1	50	27		MP389a	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .03%;RPL 1.0mVRMS.
59▼	PM598#2	50	27		MP389a	Vi 115VAC;Vo 5.0V;Io 250mA;Freq 50-400Hz;TC .02%/°C;Reg Line and Load .05%;RPL 1.0mVRMS.
60▼	PM599#1	50	27		MP389	Vi 115VAC;Vo ±15V;Io 100mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .03%;RPL 1.0mVRMS.
61▼	PM599#2	50	27		MP389	Vi 115VAC;Vo 5.0V;Io 500mA;Freq 50-400Hz;TC .02%/°C;Reg Line .02%,Load .06%;RPL 1.0mVRMS.
62	SE5D100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±5Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
63	SE5D100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±5Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
64	SE5D250	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±5Vdc at 250mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
65	SE5D250E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±5Vdc at 250mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
66	SE5S250	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 5Vdc at 250mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
67	SE5S250E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 5Vdc at 250mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
68	SE5S500	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 5Vdc at 500mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
69	SE5S500E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 5Vdc at 500mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
70	SE5S1000	50	27		MP273a	VI 115VACt;Freq.Range 50-440Hz;VO 5Vdc at 1.0A;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
71	SE5S1000E	50	27		MP273a	VI 220VACt;Freq.Range 50-440Hz;VO 5Vdc at 1.0A;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
72	SE10S200	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 10Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
73	SE10S200E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 10Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
74	SE12D50	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±12Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
75	SE12D50E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±12Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
76	SE12D100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±12Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
77	SE12D100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±12Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
78	SE12D200	50	27		MP273a	VI 115VACt;Freq.Range 50-440Hz;VO ±12Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
79	SE12D200E	50	27		MP273a	VI 220VACt;Freq.Range 50-440Hz;VO ±12Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
80	SE12S200	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 12Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
81	SE12S200E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 12Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
82	SE15D50	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
83	SE15D50E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±15Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
84	SE15D100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
85	SE15D100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±15Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
86	SE15D200	50	27		MP273a	VI 115VACt;Freq.Range 50-440Hz;VO ±15Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
87	SE15D200E	50	27		MP237a	VI 220VACt;Freq.Range 50-440Hz;VO ±15Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
88	SE15S200	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 15Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
89	SE15S200E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 15Vdc at 200mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
90	SE18D50	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±18Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
91	SE18D50E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±18Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
92	SE18D100	50	27		MP237a	VI 115VACt;Freq.Range 50-440Hz;VO ±18Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
93	SE18D100E	50	27		MP237a	VI 220VACt;Freq.Range 50-440Hz;VO ±18Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
94	SE18S100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 18Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
95	SE18S100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 18Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
96	SE20S100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 20Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
97	SE20S100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 20Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
98	SE24D50	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO ±24Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
99	SE24D50E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO ±24Vdc at 50mA;Reg.Line .01%,Load .05%;Noise 1.0Vrms.
100	SE24S100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 24Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
101	SE24S100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 24Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
102	SE28S100	50	27		MP273	VI 115VACt;Freq.Range 50-440Hz;VO 28Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
103	SE28S100E	50	27		MP273	VI 220VACt;Freq.Range 50-440Hz;VO 28Vdc at 100mA;Reg.Line .01%,Load .05%;Noise 1.0mVrms.
104	SE902	50	27		MP271a	Vi 115VACt;Vo±15V;Io 100mA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC .015%/°Ct;Rpl.5mVrms
105	SE902A	50	27		MP273a	Vi 115VACt;Vo±15V;Io 100mA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.015%/°Ct;Rpl.5mVrms.
106	SE902E	50	27		MP271a	Vi 220VACt;Vo±15V;Io 100mA;Freq 50-440Hz;Reg.Load.1% and Line .05%;TC .015%/°Ct;Rpl.5mVrms
107	SE902I	50	27		MP271a	Vi 115VACt;Vo±15V;Io 100mA;Freq 50-440Hz;Reg.Load.1% and Line .05%;TC .015%/°Ct;Rpl.5mVrms
108	SE903	50	27		MP271b	Vi 115VACt;Vo 5.0V;Io 500mA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°Ct;Rpl 1.0mVrms
109	SE903A	50	27		MP273b	Vi 115VACt;Vo 5.0V;Io 500mA;Freq50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°Ct;Rpl 1.0mVrms
110	SE903E	50	27		MP271b	Vi 220VACt;Vo 5.0V;Io 500mA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°Ct;Rpl 1.0mVrms

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	SE904	50	27		MP271	Vi 115VAC†;Vo±15V;Io 50mA;Freq 50-440Hz;Reg.Load .1% and Line .05%;TC .015%/°C†;Rpl.5mVrms
2	SE904A	50	27		MP273	Vi 115VAC†;Vo±15V;Io 50mA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.015%/°C†;Rpl.5mVrms.
3	SE904E	50	27		MP271	Vi 220VAC†;Vo±15V;Io 50mA;Freq 50-440Hz;Reg.Load .1% and Line .05%;TC .015%/°C†;Rpl.5mVrms
4	SE904I	50	27		MP271	Vi 115VAC†;Vo±15V;Io 50mA;Freq 50-440Hz;Reg.Load .1% and Line .05%;TC .015%/°C†;Rpl.5mVrms
5	SE905	50	27		MP271b	Vi 115VAC†;Vo 5.0V;Io 1.0kA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°C;Rpl 1.0mVrms
6	SE905A	50	27		MP273b	Vi 115VAC†;Vo 5.0V;Io 1.0kA;Freq50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°C†;Rpl 1.0mVrms
7	SE905E	50	27		MP271b	Vi 220VAC†;Vo 50V;Io 1.0kA;Freq 50-440Hz;Reg.Load.1% and Line.05%;TC.02%/°C†;Rpl 1.0mVrms
8	SE915	50	27		MP271	Vi 115VAC†;Vo±15V;Io 25mA;Freq 50-440Hz;Reg.Load .2% and Line .2%;TC .02%/°C†;Rpl 1.0mVrms
9	SE915A	50	27		MP273	Vi 115VAC†;Vo±15V;Io 25mA;Freq 50-440Hz;Reg.Load.2% and Line.2%;TC.02%/°C†;Rpl 1.0mVrms.
10	SE915E	50	27		MP271	Vi 220VAC†;Vo±15V;Io 25mA;Freq 50-440Hz;Reg.Load and Line .2%;TC .02%/°C†;Rpl 1.0mVrms.
11	SE915I	50	27		MP271	Vi 115VAC†;Vo±15V;Io 25mA;Freq 50-440Hz;Reg.Load and Line .2%;TC .02%/°C†;Rpl 1.0mVrms.
12	SP5902	50	27		MP271a	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±100mA;Reg.Line .05%max,Load .10%max;T.C. .015%/°C.
13	SP5902K	50	27		MP271a	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±100mA;Reg.Line.05% max,Load .10% max;T.C. .015%/°C.
14	SP5903	50	27		MP271b	Vi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 500mA;Reg.Line .05% max,Load .10%max;T.C. .020%/°C.
15	SP5903K	50	27		MP271b	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 500mA;Reg.Line .05% max,Load .10% max;T.C. .020%/°C.
16	SP5904	50	27		MP271	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±50mA;Reg.Line .05%max,Load.10%max;T.C. .015%/°C.
17	SP5904K	50	27		MP271	Vi 220V;Freq 50-440Hz;Vo ±15V;Io 50mA;Reg.Line .05%max,Load .10%max;T.C. .015%/°C.
18	SP5905	50	27		MP271b	Vi 105-125V;Freq 50-440Hz;Vo 5.0V;Io 1.0A;Reg.Line .05% max,Load .10% max;T.C. .020%/°C.
19	SP5905K	50	27		MP271b	Vi 220V;Freq 50-440Hz;Vo 5.0V;Io 1.0A;Reg.Line .05% max,Load .10% max;T.C. .020%/°C.
20	SP5915	50	27		MP271	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±25mA;Line and Load Reg .20% max;T.C. .02%/°C.
21	SP5915K	50	27		MP271	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±50mA;Line and Load Reg .20% max;T.C. .02%/°C.
22	SP5920	50	27		MP271a	Vi 105-125V;Freq 50-440Hz;Vo ±15V;Io ±200mA;Reg.Line .05% max,Load .10%max;T.C. .020%/°C.
23	SP5920K	50	27		MP271a	Vi 220V;Freq 50-440Hz;Vo ±15V;Io ±200mA;Reg.Line .05% max,Load .10%max;T.C. .020%/°C.
24	SQ1.5.250	50	27		MP362	Vi 105-125V;Freq.Range 50-440Hz;Vo 5.0V;Io 250mA;Line and Load Reg .20%♦.
25	SQ1.5.250K	50	27		MP363	Vi 220V;Freq.Range 50-440Hz;Vo 5.0V;Io 250mA;Line and Load Reg .20%♦.
26	SQ2.12.30	50	27		MP363	Vi 105-125V;Freq.Range 50-440Hz;Vo ±12V;Io ±30mA;Line and Load Reg .10%♦.
27	SQ2.12.30K	50	27		MP363	Vi 220V;Freq.Range 50-440Hz;Vo ±12V;Io ±30mA;Line and Load Reg .10%♦.
28	SQ2.12.50	50	27		MP363	Vi 105-125V;Freq.Range 50-440Hz;Vo ±12V;Io ±50mA;Line and Load Reg .10%♦.
29	SQ2.12.50K	50	27		MP363	Vi 220V;Freq.Range 50-440Hz;Vo ±12V;Io ±50mA;Line and Load Reg .10%♦.
30	SQ2.15.30	50	27		MP363	Vi 105-125V;Freq.Range 50-440Hz;Vo ±15V;Io ±30mA;Line and Load Reg .10%♦.
31	SQ2.15.30K	50	27		MP363	Vi 220V;Freq.Range 50-440Hz;Vo ±15V;Io ±30mA;Line and Load Reg .10%♦.
32	SQ2.15.50	50	27		MP363	Vi 105-125V;Freq.Range 50-440Hz;Vo ±15V;Io ±50mA;Line and Load Reg .10%♦.
33	SQ2.15.50K	50	27		MP363	Vi 220V;Freq.Range 50-440Hz;Vo ±15V;Io ±50mA;Line and Load Reg .10%♦.
34	Z5AT500SL	50	27		MP305	Vi 115VAC†;Vo 5V;Io 500mA;Load Reg. 1%†;Line Reg. 0.2%†;Rpl 2mVrms†.
35	Z5BT250SP	50	27		MP305	Vi 230VAC†;Vo 5V;Io 250mA;Load Reg. 0.05%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
36	Z5BT500SP	50	27		MP305	Vi 230VAC†;Vo 5V;Io 500mA;Load Reg. 0.1%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
37	Z15AT25DP	50	27		MP305	Vi 115VAC†;Vo ±15V;Io 25mA;Reg.Load .02%Δ,Line .02%Δ;Rpl 2mVrms†.
38	Z15AT65DL	50	27		MP305	Vi 115VAC†;Vo ±15V;Io 65mA;Reg.Load 0.2%Δ,Line 0.2%Δ;Rpl 2mVrms†.
39	Z15AT65DP	50	27		MP305	Vi 115VAC†;Vo ±15V;Io 65mA;Reg load 0.02%Δ,Line 0.02%Δ;Rpl 1mV rms†.
40	Z15AT100DP	50	27		MP305	Vi 115VAC†;Vo ±15V;Io 100mA;Reg.Load .02%Δ,Line .02%Δ;Rpl 1mVrms†.
41	Z15BT25DP	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 25mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 2mVrms†.
42	Z15BT65DP	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 65mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
43	Z15BT100DP	50	27		MP305	Vi 230VAC†;Vo ±15V;Io 100mA;Load Reg. 0.02%Δ;Line Reg. 0.02%Δ;Rpl 1mVrms†.
44	868	51	5C		MP156	VS 45;Input Volt.Range 5.0V;Zout 100M;Min Out Volt.Range 40V;TC .01%/°C.
45	878	51	5C		MP156	Adj.Current Reg;Neg.Sinking;Reg. .01%;TC .01%/°C;ZO 100MΩ.
46	D4085	51	05	Z092	CB9a	Vo±22V; Io 360mA;Load-Line Reg 15%Δ;Rpl 5.0mVrmsΔ.
47	1D24-250	52	58		MP90	Vi-12V;VoØ-±4.0 to ±50V;ΔVo-10%Vo;Vo x Io-1.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
48	1D44-450	52	58		MP90	Vi-24V;VoØ-±4.0 to ±50V;ΔVo-10%Vo;Vo x Io-1.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
49	1D84-850	52	58		MP90	Vi-28V;VoØ-±4.0 to ±50V;ΔVo-10%Vo;Vo x Io-1.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
50	1S24-2100	52	58		MP90	Vi 12V;VoØ 4.0 to 100V;ΔVo 20%Vo;Vo x Io 1.0W;Reg 2.5% load, 1.0% line;Rpl .30%.
51	1S44-4100	52	58		MP90	Vi-24V;VoØ-4.0 to 100V;ΔVo-20%Vo;Vo x Io-1.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
52	1S84-8100	52	58		MP90	Vi-28V;VoØ-4.0 to 100V;ΔVo-20%Vo;Vo x Io-1.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
53	3D24-2150	52	58		MP91b	Vi-24V;VoØ±4.0 to ±150V;ΔVo-10%Vo;Vo x Io-3.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
54	3D44-4150	52	58		MP91b	Vi-28V;VoØ±4.0 to ±150V;ΔVo-10%Vo;Vo x Io-3.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
55	3S24-21600	52	58		MP91	Vi-24V;VoØ-4.0 to 1600V;ΔVo-20%Vo;Vo x Io-3.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
56	3S44-41600	52	58		MP91	Vi-28V;VoØ-4.0 to 1600V;ΔVo-20%Vo;Vo x Io-3.0W;Reg.-2.5% load,1.0% line;Rpl-.30%.
57	15D810-815	52	5A		MP140	Vi 21V;VoØ 10 to ± 15V;dual output;Voxlo 15W;Reg. ± 2.5% load;±.50% line;Rpl .10%.
58	15S85-815	52	5A		MP140	Vi 21V;VoØ 5.0 to 15V;Voxlo 15W;Reg. ± 2.5% load;±.50% line;Rpl .10%.
59	15T85-815	52	5A		MP140	Vi 21V;VoØ 5.0 to 15V;triple output;Voxlo 15W;Reg. ± 2.5% load;±.50% line;Rpl.10%.
60	510A25	52	28		MP290c	Vi 34 VDCΔ;Vo±15V;Io 200mAΔ;Reg.line 1.0%Δ,load .20%;TC .01%/°CΔ.
61	520-25	52	28		MP290c	Vi 14 VDCΔ;Vo±15V;Io 300mAΔ;Reg.line 1.0%Δ,load .20%;TC .02%/°CΔ.
62	528Ø	52	28		MP289	Vi 34 VDCΔ;Vo±15V;Io 400mAΔ;Reg.line 1.0%Δ,load .20%;TC .02%/°CΔ.
63	546	52	5A		MP286	Vi 5.5 VDCΔ;Vo±15V;Io 240mAΔ;Reg.line and load .20%Δ;TC .02%/°CΔ.
64	9567-101-120	52	5A		MP158	VoØ3.0 to 5000V;Voxlo 3.0W;Line Reg .50%;Load Reg 3.0%;Rpl .90%pp;TC.015%/°C.
65	9567-121-124	52	5A		MP158	VoØ±15 to ±100V;Voxlo 3.0W;Line Reg .50%;Load Reg 3.0%;Rpl .90%pp;TC.015%/°C.
66	9583-101-118	52	5A		MP158	VoØ 3.0 to 3000V;Vo x Io 1.0W;Line Reg .50%;Load Reg 3.0%;Rpl .60%p-p;Tc .02%/°C.
67	9583-121	52	5A		MP158	Vo±15V;Io±33mA;Line Reg .50%;Load Reg 3.0%;Rpl .60%pp;TC.02%/°C;Ii27mA.
68	9584-102-120	52	5A		MP158	VoØ5.0 to 5000V;Voxlo 10W;Line Reg .15%;Load Reg 3.0%;Rpl .30%pp;TC.01%/°C.
69	9584-121-124	52	5A		MP158	VoØ±15 to ±100V;Voxlo 10W;Line Reg .15%;Load Reg 3.0%;Rpl .30%pp;TC.01%/°C.
70	9589-102-120	52	5A		MP158	VoØ5.0 to 5000V; Voxlo 6.0W;Line Reg .10%;Load Reg 3.0%;Rpl .60%pp;TC .01%/°C.
71	9589-121-124	52	5A		MP158	VoØ±15 to ±100V;Voxlo 6.0W;Line Reg .10%;Load Reg 3.0%;Rpl .60%pp;TC.01%/°C.
72#	AN902	52		Z174	CN27	Multi transistors;Bvc130 25V;Pt 300mW;nFE 70
73	CE5-5S180	52	27		MP278	Vi 5.0V;Vo 5.0V;Io 180mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
74	CE5-5S600	52	27		MP277	Vi 5.0V;Vo 5.0V;Io 600mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
75	CE5-12D100	52	27		MP277	Vi 5.0V†;Vo±12V;Io 100mA;Reg Line and Load .02%;Rpl 1.0mVrms.
76	CE5-12D125	52	27		MP277	Vi 5.0V;Vo±12V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
77	CE5-12D25	52	27		MP278	Vi 5.0V†;Vo±12V;Io 25mA;Reg Load and Line .02%;Rpl 1.0mVrms.
78	CE5-12D35	52	27		MP278	Vi 5.0V;Vo±12V;Io 35mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
79	CE5-12S250	52	27		MP277	Vi 5.0Vo 12V;Io 250mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
80	CE5-12S75	52	27		MP278	Vi 5.0V;Vo 12V;Io 75mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
81	CE5-15D100	52	27		MP277	Vi 5.0V;Vo±15V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
82	CE5-15D30	52	27		MP278	Vi 5.0V;Vo±15V;Io 30mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
83	CE5-15S200	52	27		MP277	Vi 5.0V;Vo 15V;Io 200mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
84	CE5-15S60	52	27		MP278	Vi 50V;Vo 15V;Io 60mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
85	CE5-18D25	52	27		MP278	Vi 5.0V;Vo±18V;Io 25mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
86	CE5-18D85	52	27		MP277	Vi 5.0V;Vo±18V;Io 85mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
87	CE5-24D18	52	27		MP278	Vi 5.0V;Vo±24V;Io 18mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
88	CE5-24D20	52	27		MP278	Vi 5.0V†;Vo±24V;Io 20mA;Reg Load and Line .02%;Rpl 1.0mVrms.
89	CE5-24D62	52	27		MP277	Vi 5.0V;Vo±24V;Io 62mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
90	CE5-24D75	52	27		MP277	Vi 5.0V†;Vo±24V;Io 75mA;Reg Load and Line .02%;Rpl 1.0mVrms.
91	CE5-24S125	52	27		MP277	Vi 5.0V;Vo 24V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
92	CE5-24S36	52	27		MP278	Vi 5.0V;Vo 24V;Io 36mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
93	CE5-28S100	52	27		MP277	Vi 5.0V;Vo 28V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
94	CE5-28S32	52	27		MP278	Vi 5.0V;Vo 28V;Io 32mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
95	CE6-5S180	52	27		MP278	Vi 6.0V;Vo 5.0V;Io 180mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
96	CE6-5S600	52	27		MP277	Vi 6.0V;Vo 5.0V;Io 600mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
97	CE6-12D100	52	27		MP277	Vi 6.0V†;Vo±12V;Io 100mA;Reg Load and Line .02%;Rpl 1.0mVrms.
98	CE6-12D125	52	27		MP277	Vi 6.0V;Vo±12V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
99	CE6-12D25	52	27		MP278	Vi 6.0V†;Vo±12V;Io 25mA;Reg Load and Line .02%;Rpl 1.0mVrms.
100	CE6-12D35	52	27		MP278	Vi 6.0V;Vo±12V;Io 35mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
101	CE6-12S250	52	27		MP277	Vi 6.0V;Vo 12V;Io 250mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
102	CE6-12S75	52	27		MP278	Vi 6.0V;Vo 12V;Io 75mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
103	CE6-15D100	52	27		MP277	Vi 6.0V;Vo±15V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
104	CE6-15D30	52	27		MP278	Vi 6.0V;Vo±15V;Io 30mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
105	CE6-15S200	52	27		MP277	Vi 6.0V;Vo 15V;Io 200mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
106	CE6-15S60	52	27		MP278	Vi 6.0V;Vo 15V;Io 60mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
107	CE6-18D25	52	27		MP278	Vi 6.0V;Vo±18V;Io 25mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
108	CE6-18D85	52	27		MP277	Vi 6.0V;Vo±18V;Io 85mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
109	CE6-24D18	52	27		MP278	Vi 6.0V;Vo±24V;Io 18mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
110	CE6-24D20	52	27		MP278	Vi 6.0V†;Vo±24V;Io 20mA;Reg Load and Line .02%;Rpl 1.0mVrms.

LINE No.	2 TYPE No.	1 USE	TC EO MP DE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	CE6-24D62	52	27		MP277	Vi 6.0V;Vo±24V;Io 62mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
2	CE6-24D75	52	27		MP277	Vi 6.0Vt;Vo±24V;Io 75mA;Reg Load and Line .02%;Rpl 1.0mVrms.
3	CE6-24S125	52	27		MP277	Vi 6.0V;Vo 24V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
4	CE6-24S36	52	27		MP278	Vi 6.0V;Vo 24V;Io 36mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
5	CE6-28S100	52	27		MP277	Vi 6.0V;Vo 28V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
6	CE6-28S32	52	27		MP278	Vi 6.0V;Vo 28V;Io 32mA;Reg Line and Load .02%;TC .02%;Eff 50%;Rpl 1.0mVrms.
7	CE12-5S180	52	27		MP278	Vi 12V;Vo 5.0V;Io 180mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
8	CE12-5S600	52	27		MP277	Vi 12V;Vo 5.0V;Io 600mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
9	CE12-12D100	52	27		MP277	Vi 12Vt;Vo±12V;Io 100mA;Reg Load and Line .02%;Rpl 1.0mVrms.
10	CE12-12D125	52	27		MP277	Vi 12V;Vo±12V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
11	CE12-12D25	52	27		MP278	Vi 12Vt;Vo±12V;Io 25mA;Reg Load and Line .02%;Rpl 1.0mVrms.
12	CE12-12D35	52	27		MP278	Vi 12V;Vo±12V;Io 35mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
13	CE12-12S250	52	27		MP277	Vi 12V;Vo 12V;Io 250mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
14	CE12-12S75	52	27		MP278	Vi 12V;Vo 12V;Io 75mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
15	CE12-15D100	52	27		MP277	Vi 12V;Vo±15V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
16	CE12-15D30	52	27		MP278	Vi 12V;Vo±15V;Io 30mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
17	CE12-15S200	52	27		MP277	Vi 12V;Vo 15V;Io 200mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
18	CE12-15S60	52	27		MP278	Vi 12V;Vo 15V;Io 60mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
19	CE12-18D25	52	27		MP278	Vi 12V;Vo±18V;Io 25mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
20	CE12-18D85	52	27		MP277	Vi 12V;Vo±18V;Io 85mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
21	CE12-24D18	52	27		MP278	Vi 12V;Vo±24V;Io 18mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
22	CE12-24D20	52	27		MP278	Vi 12Vt;Vo±24V;Io 20mA;Reg Load and Line .02%;Rpl 1.0mVrms.
23	CE12-24D62	52	27		MP277	Vi 12V;Vo±24V;Io 62mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
24	CE12-24D75	52	27		MP277	Vi 12Vt;Vo±24V;Io 75mA;Reg Load and Line .02%;Rpl 1.0mVrms.
25	CE12-24S125	52	27		MP277	Vi 12V;Vo 24V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
26	CE12-24S36	52	27		MP278	Vi 12V;Vo 24V;Io 36mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
27	CE12-28S100	52	27		MP277	Vi 12V;Vo 28V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
28	CE12-28S32	52	27		MP278	Vi 12V;Vo 28V;Io 32mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
29	CE28-5S180	52	27		MP278	Vi 28V;Vo 5.0V;Io 180mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
30	CE28-5S600	52	27		MP277	Vi 28V;Vo 5.0V;Io 600mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
31	CE28-12D100	52	27		MP277	Vi 28Vt;Vo±12V;Io 100mA;Reg Load and Line .02%;Rpl 1.0mVrms.
32	CE28-12D125	52	27		MP277	Vi 28V;Vo±12V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
33	CE28-12D25	52	27		MP278	Vi 28Vt;Vo±12V;Io 25mA;Reg Load and Line .02%;Rpl 1.0mVrms.
34	CE28-12D35	52	27		MP278	Vi 28V;Vo±12V;Io 35mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
35	CE28-12S250	52	27		MP277	Vi 28V;Vo 12V;Io 250mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
36	CE28-12S75	52	27		MP278	Vi 28V;Vo 12V;Io 75mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
37	CE28-15D100	52	27		MP277	Vi 28V;Vo±15V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
38	CE28-15D30	52	27		MP278	Vi 28V;Vo±15V;Io 30mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
39	CE28-15S200	52	27		MP277	Vi 28V;Vo 15V;Io 200mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
40	CE28-15S60	52	27		MP278	Vi 28V;Vo 15V;Io 60mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
41	CE28-18D25	52	27		MP278	Vi 28V;Vo±18V;Io 25mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
42	CE28-18D85	52	27		MP277	Vi 28V;Vo±18V;Io 85mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
43	CE28-24D18	52	27		MP278	Vi 28V;Vo±24V;Io 18mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
44	CE28-24D20	52	27		MP278	Vi 28Vt;Vo±24V;Io 20mA;Reg Load and Line .02%;Rpl 1.0mVrms.
45	CE28-24D62	52	27		MP277	Vi 28V;Vo±24V;Io 62mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
46	CE28-24D75	52	27		MP277	Vi 28Vt;Vo±24V;Io 75mA;Reg Load and Line .02%;Rpl 1.0mVrms.
47	CE28-24S125	52	27		MP277	Vi 28V;Vo 24V;Io 125mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
48	CE28-24S36	52	27		MP278	Vi 28V;Vo 24V;Io 36mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
49	CE28-28S100	52	27		MP277	Vi 28V;Vo 28V;Io 100mA;Reg Line and Load .02%;TC .02%;Eff 60%;Rpl 1.0mVrms.
50	CE28-28S32	52	27		MP278	Vi 28V;Vo 28V;Io 32mA;Reg Line and Load .02%;TC .02%;Eff 55%;Rpl 1.0mVrms.
51	DD5-1.12.250	52	27		MP277	Vi 5.0V;Vo 12V;Io 250mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
52	DD5-1.12.75	52	27		MP35c	Vi 5.0V;Vo 12V;Io 75mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
53	DD5-1.24.125	52	27		MP277	Vi 5.0V;Vo 24V;Io 125mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
54	DD5-1.24.36	52	27		MP35c	Vi 5.0V;Vo 24V;Io 36mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
55	DD5-1.28.110	52	27		MP277	Vi 5.0V;Vo 28V;Io 110mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
56	DD5-1.28.32	52	27		MP35c	Vi 5.0V;Vo 28V;Io 32mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
57	DD5-1.30.100	52	27		MP277	Vi 5.0V;Vo 30V;Io 100mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
58	DD5-1.30.30	52	27		MP35c	Vi 5.0V;Vo 30V;Io 30mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
59	DD5-1.5.180	52	27		MP35c	Vi 5.0V;Vo 5.0V;Io 180mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
60	DD5-1.5.600	52	27		MP277	Vi 5.0V;Vo 5.0V;Io 600mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
61	DD5-2.12.100	52	27		MP277	Vi 5.0VDC;Vo ±12V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 60%.
62	DD5-2.12.125	52	27		MP277	Vi 5.0V;Vo ±12V;Io ±125mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
63	DD5-2.12.25	52	27		MP35c	Vi 5.0VDC;Vo ±12;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 50%.
64	DD5-2.12.35	52	27		MP35c	Vi 5.0V;Vo ±12V;Io ±35mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
65	DD5-2.15.100	52	27		MP277	Vi 5.0VDC;Vo ±15V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 60%.
66	DD5-2.15.25	52	27		MP35c	Vi 5.0VDC;Vo ±15V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 50%.
67	DD5-2.15.30	52	27		MP35c	Vi 5.0V;Vo ±15V;Io ±30mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
68	DD5-2.18.25	52	27		MP35c	Vi 5.0VDC;Vo ±18V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 50%.
69	DD5-2.18.85	52	27		MP277	Vi 5.0V;Vo ±18V;Io ±85mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
70	DD5-2.24.18	52	27		MP35c	Vi 5.0V;Vo ±24V;Io ±18mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
71	DD5-2.24.62	52	27		MP277	Vi 5.0V;Vo ±24V;Io ±62mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
72	DD6-1.12.250	52	27		MP277	Vi 6.0V;Vo 12V;Io 250mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
73	DD6-1.12.75	52	27		MP35c	Vi 6.0V;Vo 12V;Io 75mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
74	DD6-1.24.125	52	27		MP277	Vi 6.0V;Vo 24V;Io 125mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
75	DD6-1.24.36	52	27		MP35c	Vi 6.0V;Vo 24V;Io 36mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
76	DD6-1.28.110	52	27		MP277	Vi 6.0V;Vo 28V;Io 110mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
77	DD6-1.28.32	52	27		MP35c	Vi 6.0V;Vo 28V;Io 32mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
78	DD6-1.30.100	52	27		MP277	Vi 6.0V;Vo 30V;Io 100mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
79	DD6-1.30.30	52	27		MP35c	Vi 6.0V;Vo 30V;Io 30mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
80	DD6-1.5.180	52	27		MP35c	Vi 6.0V;Vo 5.0V;Io 180mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
81	DD6-1.5.600	52	27		MP277	Vi 6.0V;Vo 5.0V;Io 600mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
82	DD6-2.12.100	52	27		MP277	Vi 6.0VDC;Vo ±12V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 60%.
83	DD6-2.12.125	52	27		MP277	Vi 6.0V;Vo ±12V;Io ±125mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
84	DD6-2.12.25	52	27		MP35c	Vi 6.0VDC;Vo ±12V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 50%.
85	DD6-2.12.35	52	27		MP35c	Vi 6.0V;Vo ±12V;Io ±35mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
86	DD6-2.15.100	52	27		MP277	Vi 6.0VDC;Vo ±15V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 60%.
87	DD6-2.15.25	52	27		MP35c	Vi 6.0VDC;Vo ±15V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 50%.
88	DD6-2.15.30	52	27		MP35c	Vi 6.0V;Vo ±15V;Io ±30mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
89	DD6-2.18.85	52	27		MP277	Vi 6.0V;Vo ±18V;Io ±85mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
90	DD6-2.24.18	52	27		MP35c	Vi 6.0V;Vo ±24V;Io ±18mA;Eff 50%;Line and Load Reg .02% max;T.C. .02%/°C.
91	DD6-2.24.62	52	27		MP277	Vi 6.0V;Vo ±24V;Io ±62mA;Eff 60%;Line and Load Reg .02% max;T.C. .02%/°C.
92	DD12-1.12.250	52	27		MP277	Vi 12V;Vo 12V;Io 250mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
93	DD12-1.12.75	52	27		MP35c	Vi 12V;Vo 12V;Io 75mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
94	DD12-1.24.125	52	27		MP277	Vi 12V;Vo 24V;Io 125mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
95	DD12-1.24.36	52	27		MP35c	Vi 12V;Vo 24V;Io 36mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
96	DD12-1.28.110	52	27		MP277	Vi 12V;Vo 28V;Io 110mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
97	DD12-1.28.32	52	27		MP35c	Vi 12V;Vo 28V;Io 32mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
98	DD12-1.30.100	52	27		MP277	Vi 12V;Vo 30V;Io 100mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
99	DD12-1.30.30	52	27		MP35c	Vi 12V;Vo 30V;Io 30mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
100	DD12-1.5.180	52	27		MP35c	Vi 12V;Vo 5.0V;Io 180mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
101	DD12-1.5.500	52	27		MP277	Vi 12V;Vo 5.0V;Io 600mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
102	DD12-2.12.100	52	27		MP277	Vi 12VDC;Vo ±12V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 65%.
103	DD12-2.12.125	52	27		MP277	Vi 12V;Vo ±12V;Io ±125mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.
104	DD12-2.12.25	52	27		MP35c	Vi 12VDC;Vo ±12V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
105	DD12-2.12.35	52	27		MP35c	Vi 12V;Vo ±12V;Io ±35mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
106	DD12-2.15.100	52	27		MP277	Vi 12VDC;Vo ±15V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 65%.
107	DD12-2.15.25	52	27		MP35c	Vi 12VDC;Vo ±15V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
108	DD12-2.15.30	52	27		MP35c	Vi 12V;Vo ±15V;Io ±30mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
109	DD12-2.18.25	52	27		MP35c	Vi 12VDC;Vo ±18V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
110	DD12-2.18.85	52	27		MP277	Vi 12V;Vo ±18V;Io ±85mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.

LINE No.	2 TYPE No.	1 USE	TC EO MP DE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	DD12-2.24.18	52	27		MP35c	Vi 12V;Vo ±24V;Io ±18mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
2	DD12-2.24.62	52	27		MP277	Vi 12V;Vo ±24V;Io ±62mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.
3	DD28-1.12.250	52	27		MP277	Vi 28V;Vo 12V;Io 250mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
4	DD28-1.12.75	52	27		MP35c	Vi 28V;Vo 12V;Io 75mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
5	DD28-1.24.125	52	27		MP277	Vi 28V;Vo 24V;Io 125mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
6	DD28-1.24.36	52	27		MP35c	Vi 28V;Vo 24V;Io 36mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
7	DD28-1.28.110	52	27		MP277	Vi 28V;Vo 28V;Io 110mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
8	DD28-1.28.32	52	27		MP35c	Vi 28V;Vo 28V;Io 32mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
9	DD28-1.30.100	52	27		MP277	Vi 28V;Vo 30V;Io 100mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
10	DD28-1.30.30	52	27		MP35c	Vi 28V;Vo 30V;Io 30mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
11	DD28-1.5.180	52	27		MP35c	Vi 28V;Vo 5.0V;Io 180mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
12	DD28-1.5.600	52	27		MP277	Vi 28V;Vo 5.0V;Io 600mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
13	DD28-2.12.100	52	27		MP277	Vi 28VDC;Vo ±12V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 65%.
14	DD28-2.12.125	52	27		MP277	Vi 28V;Vo ±12V;Io ±125mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.
15	DD28-2.12.25	52	27		MP35c	Vi 28VDC;Vo ±12V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
16	DD28-2.12.35	52	27		MP35c	Vi 28V;Vo ±12V;Io ±35mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
17	DD28-2.15.100	52	27		MP277	Vi 28VDC;Vo ±15V;Io 100mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 65%.
18	DD28-2.15.25	52	27		MP35c	Vi 28VDC;Vo ±15V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
19	DD28-2.15.30	52	27		MP35c	Vi 28V;Vo ±15V;Io ±30mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
20	DD28-2.18.25	52	27		MP35c	Vi 28VDC;Vo ±18V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
21	DD28-2.18.85	52	27		MP277	Vi 28V;Vo ±18V;Io ±85mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.
22	DD28-2.24.18	52	27		MP35c	Vi 28V;Vo ±24V;Io ±18mA;Eff 55%;Line and Load Reg .02% max;T.C. .02%/°C.
23	DD28-2.24.25	52	27		MP35c	Vi 28VDC;Vo ±24V;Io 25mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 55%.
24	DD28-2.24.62	52	27		MP277	Vi 28V;Vo ±24V;Io ±62mA;Eff 65%;Line and Load Reg .02% max;T.C. .02%/°C.
25	DD28-2.24.75	52	27		MP277	Vi 28VDC;Vo ±24V;Io 75mA;Reg.Load.02% and Line.02%;TC.02%/°C;Rpl 1.0mVrms;Eff. 65%.
26	DTD5-2.12.38	52	27		MP367	Vi 5.0V;Vo ±12V;Io ±38mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
27	DTD5-2.15.30	52	27		MP367	Vi 5.0V;Vo ±15V;Io 30mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
28	DTD5-2.24.20	52	27		MP367	Vi 5.0V;Vo ±24V;Io ±20mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
29	DTD5-2.5.90	52	27		MP367	Vi 5.0V;Vo ±5.0V;Io ±90mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
30	DTD5-2.6.75	52	27		MP367	Vi 5.0V;Vo ±6.0V;Io ±75mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
31	DTD6-2.12.38	52	27		MP367	Vi 6.0V;Vo ±12V;Io ±38mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
32	DTD6-2.15.30	52	27		MP367	Vi 6.0V;Vo ±15V;Io ±30mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
33	DTD6-2.24.20	52	27		MP367	Vi 6.0V;Vo ±24V;Io 20mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
34	DTD6-2.5.90	52	27		MP367	Vi 6.0V;Vo ±5.0V;Io ±90mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
35	DTD6-2.6.75	52	27		MP367	Vi 6.0V;Vo ±6.0V;Io ±75mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
36	DTD12-2.12.38	52	27		MP367	Vi 12V;Vo ±12V;Io ±38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
37	DTD12-2.15.30	52	27		MP367	Vi 12V;Vo ±15V;Io ±30mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
38	DTD12-2.24.20	52	27		MP367	Vi 12V;Vo ±24V;Io ±20mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
39	DTD12-2.5.90	52	27		MP367	Vi 12V;Vo ±5.0V;Io ±90mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
40	DTD12-2.6.75	52	27		MP367	Vi 12V;Vo ±6.0V;Io ±75mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
41	DTD15-2.12.38	52	27		MP367	Vi 15V;Vo ±12V;Io ±38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
42	DTD15-2.15.30	52	27		MP367	Vi 15V;Vo ±15V;Io ±30mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
43	DTD15-2.24.20	52	27		MP367	Vi 15V;Vo ±24V;Io ±20mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
44	DTD15-2.5.90	52	27		MP367	Vi 15V;Vo ±5.0V;Io ±90mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
45	DTD15-2.6.75	52	27		MP367	Vi 15V;Vo ±6.0V;Io ±75mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
46	DTD28-2.12.38	52	27		MP367	Vi 28V;Vo ±12V;Io ±38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
47	DTD28-2.15.30	52	27		MP367	Vi 28V;Vo ±15V;Io ±30mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
48	DTD28-2.24.20	52	27		MP367	Vi 28V;Vo ±24V;Io ±20mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
49	DTD28-2.5.90	52	27		MP367	Vi 28V;Vo ±5.0V;Io 90mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
50	DTD28-2.6.75	52	27		MP367	Vi 28V;Vo ±6.0V;Io ±75mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
51	DTS5-1.12.75	52	27		MP367	Vi 5.0V;Vo 12V;Io 75mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
52	DTS5-1.15.60	52	27		MP367	Vi 5.0V;Vo 15V;Io 60mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
53	DTS5-1.24.38	52	27		MP367	Vi 5.0V;Vo 24V;Io 38mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
54	DTS5-1.5.180	52	27		MP367	Vi 5.0V;Vo 5.0V;Io 180mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
55	DTS5-1.6.150	52	27		MP367	Vi 5.0V;Vo 6.0V;Io 150mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
56	DTS6-1.12.75	52	27		MP367	Vi 6.0V;Vo 12V;Io 75mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
57	DTS6-1.15.60	52	27		MP367	Vi 6.0V;Vo 15V;Io 60mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
58	DTS6-1.24.38	52	27		MP367	Vi 6.0V;Vo 24V;Io 38mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
59	DTS6-1.5.180	52	27		MP367	Vi 6.0V;Vo 5.0V;Io 180mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
60	DTS6-1.6.150	52	27		MP367	Vi 6.0V;Vo 6.0V;Io 150mA;Eff 80%;Freq 5-10kHz;No and Rpl 30mVp-p.
61	DTS12-1.12.75	52	27		MP367	Vi 12V;Vo 12V;Io 75mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
62	DTS12-1.15.60	52	27		MP367	Vi 12V;Vo 15V;Io 60mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
63	DTS12-1.24.38	52	27		MP367	Vi 12V;Vo 24V;Io 38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
64	DTS12-1.5.180	52	27		MP367	Vi 12V;Vo 5.0V;Io 180mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
65	DTS12-1.6.150	52	27		MP367	Vi 12V;Vo 6.0V;Io 150mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
66	DTS15-1.12.75	52	27		MP367	Vi 15V;Vo 12V;Io 75mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
67	DTS15-1.15.60	52	27		MP367	Vi 15V;Vo 15V;Io 60mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
68	DTS15-1.24.38	52	27		MP367	Vi 15V;Vo 24V;Io 38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
69	DTS15-1.5.180	52	27		MP367	Vi 15V;Vo 5.0V;Io 180mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
70	DTS15-1.6.150	52	27		MP367	Vi 15V;Vo 6.0V;Io 150mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
71	DTS28-1.12.75	52	27		MP367	Vi 28V;Vo 12V;Io 75mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
72	DTS28-1.15.60	52	27		MP367	Vi 28V;Vo 15V;Io 60mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
73	DTS28-1.24.38	52	27		MP367	Vi 28V;Vo 24V;Io 38mA;Eff 90%;Freq 5-10kHz;No and Rpl 30mVp-p.
74	DTS28-1.5.180	52	27		MP367	Vi 28V;Vo 5.0V;Io 180mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
75	DTS28-1.6.150	52	27		MP367	Vi 28V;Vo 6.0V;Io 150mA;Eff 85%;Freq 5-10kHz;No and Rpl 30mVp-p.
76	HC1050	52	5C		MP184	Vi 40VΔ;Vo 5.0VDC;Io 600mA;Rpl .25Vp-p;Load Reg. .45V;Eff 83%.
77	HC1060	52	5C		MP184	Vi 40VΔ;Vo 6.0VDC;Io 500mA;Rpl .25Vp-p;Load Reg. .50V;Eff 83%.
78	HC1080	52	5C		MP184	Vi 40VΔ;Vo 8.0VDC;Io 375mA;Rpl .25Vp-p;Load Reg. .525V;Eff 83%.
79	HC1100	52	5C		MP184	Vi 40VΔ;Vo 10VDC;Io 300mA;Rpl .25Vp-p;Load Reg. .55V;Eff 83%.
80	HC1101	52	5C		MP184	Vi 40VΔ;Vo 100VDC;Io 30mA;Rpl .30%p-p;Load Reg. 3.0V;Eff 83%.
81	HC1120	52	5C		MP184	Vi 40VΔ;Vo 12VDC;Io 250mA;Rpl .25Vp-p;Load Reg. .60V;Eff 83%.
82	HC1150	52	5C		MP184	Vi 40VΔ;Vo 15VDC;Io 200mA;Rpl .25Vp-p;Load Reg. .70V;Eff 83%.
83	HC1151	52	5C		MP184	Vi 40VΔ;Vo 150VDC;Io 20mA;Rpl .30Vp-p;Load Reg. 4.5V;Eff 83%.
84	HC1200	52	5C		MP184	Vi 40VΔ;Vo 20VDC;Io 150mA;Rpl .20Vp-p;Load Reg. .80V;Eff 83%.
85	HC1201	52	5C		MP184	Vi 40VΔ;Vo 200VDC;Io 15mA;Rpl .30Vp-p;Load Reg. 6.0V;Eff 83%.
86	HC1240	52	5C		MP184	Vi 40VΔ;Vo 24VDC;Io 125mA;Rpl .20Vp-p;Load Reg. .85V;Eff 83%.
87	HC1280	52	5C		MP184	Vi 40VΔ;Vo 28VDC;Io 108mA;Rpl .20Vp-p;Load Reg. .90V;Eff 83%.
88	HC1300	52	5C		MP184	Vi 40VΔ;Vo 30VDC;Io 100mA;Rpl .20Vp-p;Load Reg. 1.0V;Eff 83%.
89	HC1301	52	5C		MP184	Vi 40VΔ;Vo 300VDC;Io 10mA;Rpl .30Vp-p;Load Reg. 9.0V;Eff 83%.
90	HC1500	52	5C		MP184	Vi 40VΔ;Vo 50VDC;Io 60mA;Rpl .30Vp-p;Load Reg. 1.5V;Eff 83%.
91	HC1750	52	5C		MP184	Vi 40VΔ;Vo 75VDC;Io 40mA;Rpl .30Vp-p;Load Reg. 2.25V;Eff 83%.
92	HC3120	52	5C		MP184	Vi 40VΔ;Vo ±125V;Io ±125mA;Rpl .200Vp-p;Load Reg. ±.36V;Eff 83%.
93	HC3150	52	5C		MP184	Vi 40VΔ;Vo ±15V;Io ±100mA;Rpl .200Vp-p;Load Reg. ±.46V;Eff 83%.
94	HC3180	52	5C		MP184	Vi 40VΔ;Vo ±18V;Io ±83mA;Rpl .200Vp-p;Load Reg. ±.60V;Eff 83%.
95	HC3250	52	5C		MP184	Vi 40VΔ;Vo ±25V;Io ±60mA;Rpl .200Vp-p;Load Reg. ±.75V;Eff 83%.
96	MC1466L§	52	07	F043	TO116	Wide Range Vandl Regulator Norm at 1.0Vand1.0mAout;Vinoff40mVΔ;Iin12uAΔ.
97	MC1566L§	52	5C	F043	TO116	Wide Range V and I Regulator;Norm at 1.0V and 1.0mA out;Vinoff 25mVΔ;Iin 6.0uAΔ.
98	MD25-2100	52	27		MP90b	Vi 12V;Vo☑±5.0 to ±100V;Voxlo 1.5W;Reg. ±1.0% line and load;Rpl 300m%Δ.
99	MD45-4100	52	27		MP90b	Vi 24V;Vo☑±5.0 to ±100V;Voxlo 1.5W;Reg. ±1.0% line and load;Rpl 300m%Δ.
100	MD85-8100	52	27		MP90b	Vi 28V;Vo☑±5.0 to ±100V;Voxlo 1.5W;Reg. ±1.0% line and load;Rpl 300m%Δ.
101	MPD5-150B	52	57		MP133	Vi 28Vt;Vo 5.0V at 600mAt or 150V at 5.0mAt;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
102	MPD5-150C	52	57		MP133	Vi 5.0Vt;Vo 5.0V at 600mAt or 150V at 5.0mAt;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
103	MPD5-750B	52	57		MP133	Vi 28Vt;Vo 5.0V at 750mAt;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
104	MPD5-750C	52	57		MP133	Vi 5.0Vt;Vo 5.0V at 750mAt;TC 50m%/°CΔ;Reg. line 5.0m%Δ, load 12.5mV.
105	MPD15-100B	52	57		MP134	Vi 28Vt;Vo±15V at 100mAt;Tc 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
106	MPD15-100C	52	57		MP134	Vi 5.0Vt;Vo±15V at 100mA;TC 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
107	MPD15-300B	52	57		MP135	Vi 28Vt;Vo±15V at 300mAt;TC 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
108	MPD15-300C	52	57		MP135	Vi 5.0Vt;Vo±15V at 300mAt;TC 15m%/°CΔ;Reg. line 5.0m%Δ, load 20m%Δ.
109	MS25-2250	52	27		MP90b	Vi 12V;Vo☑ 5.0 to 250V;Voxlo 3.0W;Reg. ± 1.0% line and load;Rpl 300m%Δ.
110	MS45-4250	52	27		MP90b	Vi 24V;Vo☑ 5.0 to 250V;Voxlo 3.0W;Reg. ± 1.0% line and load;Rpl 300m%Δ.

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	MS85-8250	52	27		MP90b	Vi 28V;Voℤ 5.0 to 250V;Voxlo 3.0W;Reg. ± 1.0% line and load;Rpl 300m%Δ.
2	PD5	52	28		MP90	Vi 5.0V;Vo 15V;Po 1.0W;Tc .05%/°C;Reg. 1.0%;Rpl .10%.
3	PD13-20	52			MP90a	Viℤ 5.0 to 28V;Vo 200V;IS 12mA.
4	PD15	52	27		MP90a	Vi-28V;Vo-±15V,Io-34mA each;Reg-less than 2.5%,line 1.0%;Rpl-less than .30%.
5	PD24-250	52	27		MP90a	Vi 12V;Voℤ ±4.0 to ±50V;Vo x Io 1.0W;temp stab .05%/°C;Reg 2.5% load , 1.0% line Rpl .30%.
6	PD44-450	52	27		MP90a	Vi-24V;Voℤ±4.0 to ±50V;Vo x Io-1.0W;temp. stab.-.05%/°C;Reg-2.5% load,1.0% line;Rpl-.30%.
7	PD84-850	52	27		MP90a	Vi-28V;Voℤ±4.0 to ±50V;Vo x Io-1.0W;temp. stab.-.05%/°C;Reg-2.5% load,1.0% line;Rpl-.30%.
8	PS24-2100	52	27		MP90a	Vi-12V;Voℤ-4.0 to 100V;Vo x Io-1.0W;temp. stab.-.05%/°C;Reg-2.5% load,1.0% line;Rpl-.30%.
9	PS44-4100	52	27		MP90a	Vi-24V;Voℤ-4.0 to 100V;Vo x Io-1.0W;temp. stab.-.05%/°C;Reg-2.5% load,1.0% line;Rpl-.30%.
10	PS84-8100	52	27		MP90a	Vi-28V;Voℤ-4.0 to 100V;Vo x Io-1.0W;temp. stab.-.05%/°C;Reg-2.5% load,1.0% line;Rpl-.30%.
11	PSR1	52	27		MP142	Po 150mW;Efficiency 70%;Ro 100ΩΔ;Rpl 20mVppΔ.
12	R1862-3062	52	27		MP141	CRT P.S.;Viℤ 18 to 30V;Vo ± 2000VDC, 6.3VAC;Io 2mADC;700mAAC.
13	SD25-2100	52	27		MP92	Vi 12V;Voℤ ± 5.0 to ± 100V;Voxlo 1.5W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
14	SD45-4100	52	27		MP92	Vi 24V;Voℤ ± 5.0 to ± 100V;Voxlo 1.5W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
15	SD85-8100	52	27		MP92	Vi 28V;Voℤ ± 5.0 to ± 100V;Voxlo 1.5W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
16	SS25-2250	52	27		MP92	Vi 12V;Voℤ 5.0 to 250V;Voxlo 3.0W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
17	SS45-4250	52	27		MP92	Vi 24V;Voℤ 5.0 to 250V;Voxlo 3.0W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
18	SS85-8250	52	27		MP92	Vi 28V;Voℤ 5.0 to 250V;Voxlo 3.0W;Load and Line Reg. ± 1.0%;Tc .05%/°CΔ.
19	SSP1500	52	27		MP202	Viℤ 4.0 to 12V;Voℤ 500V - 1.5kV;tr 1.0ms;tf 7.0ms;Rpl 1.0%ppΔ.
20	ST2	52	27		MP92	Vi-12V;Voℤ±1V;temp. stab.-.05%/°C;Reg-2.0% load, line 2.0%;Input to Output Isolation-100V.
21	ST4	52	27		MP92	Vi-24V;Voℤ±4V;temp. stab.-.05%/°C;Reg-2.0% load, line 2.0%;Input to Output Isolation-100V.
22	ST8	52	27		MP92	Vi-28V;Voℤ±4V;temp. stab.-.05%/°C;Reg-2.0% load, line 2.0%;Input to Output Isolation-100V.
23	SW9-16-1.5.1	52	27		MP366	High Eff.Switching;Vi 9.0-16V;Vo 5.0V;Io 1.0A;Eff 85%;Reg.Line .10%,Load .05%.
24	SW9-16-1.5.2	52	27		MP366	High Eff.Switching;Vi 9.0-16V;Vo 5.0V;Io 2.0A;Eff 85%;Reg.Line .10%,Load .05%.
25	SW9-16-1.6.1	52	27		MP366	High Eff.Switching;Vi 9.0-16V;Vo 6.0V;Io 1.0A;Eff 85%;Reg.Line .10%,Load .05%.
26	SW9-16-1.6.2	52	27		MP366	High Eff.Switching;Vi 9.0-16V;Vo 6.0V;Io 2.0A;Eff 85%;Reg.Line .10%,Load .05%.
27	SW16-24-1.12.1	52	27		MP366	High Eff.Switching;Vi 16-24V;Vo 12V;Io 1.0A;Eff 85%;Reg.Line .10%,Load .05%.
28	SW16-24-1.12.2	52	27		MP366	High Eff.Switching;Vi 16-24V;Vo 12V;Io 2.0A;Eff 85%;Reg.Line .10%,Load .05%.
29	SW19-28-1.15.1	52	27		MP366	High Eff.Switching;Vi 19-28V;Vo 15V;Io 1.0A;Eff 90%;Reg.Line .10%,Load .05%.
30	SW19-28-1.15.2	52	27		MP366	High Eff.Switching;Vi 19-28V;Vo 15V;Io 2.0A;Eff 90%;Reg.Line .10%,Load .05%.
31	SW24-32-1.20.1	52	27		MP366	High Eff.Switching;Vi 24-32V;Vo 20V;Io 1.0A;Eff 90%;Reg.Line .10%,Load .05%.
32	SW24-32-1.20.2	52	27		MP366	High Eff.Switching;Vi 24-32V;Vo 20V;Io 2.0A;Eff 90%;Reg.Line .10%,Load .05%.
33	SW28-36-1.24.1	52	27		MP366	High Eff.Switching;ΔVi 28-36V;Vo 24V;Io 1.0A;Eff 90%;Reg.Line .10%,Load .05%.
34	SW28-36-1.24.2	52	27		MP366	High Eff.Switching;ΔVi 28-36V;Vo 24V;Io 2.0A;Eff 90%;Reg.Line .10%,Load .05%.
35	SW32-40-1.28.1	52	27		MP366	High Eff.Switching;ΔVi 32-40V;Vo 28V;Io 1.0A;Eff 90%;Reg.Line .10%,Load .05%.
36	SW32-40-1.28.2	52	27		MP366	High Eff.Switching;ΔVi 32-40V;Vo 28V;Io 2.0A;Eff 90%;Reg.Line .10%,Load .05%.
37▼	S.010	52	05		MP374	Vi 5.0Vdc†;VO 15Vdc max;Line Reg .25%VO;Load Reg .05%VO;Rp/25mVpp.
38	TD10-15	52			MP203	Viℤ 5.0 to 28V;Vo 200V;IS 3.0mA.
39▼	861BL	54				ΔVS 30V;Pd 300mWΔ;Ri 20Ω*;ΔVo 25V*.
40▼	861CL	54				ΔVS 30V;Pd 300mWΔ;Ri 20Ω*;ΔVo 25V*.
41#	AN903	54	27	Z302	TO116	6 Trans, 1 Diode Differential Amp.
42#	AN904	54	27	Z303	TO116	6 Trans Differential Amp.
43#	AN905	54	27	Z302	TO116	6 Trans, 1 Diode Differential Amp.
44	CA3018Δ	54	5C	Z007	CN18	1 Darl;2TR;Veb 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
45	CA3018ℤ	54	5C	Z007	CN18	1 Darl;2TR;Veb 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 30*;ft 300MHz*.
46	CA3018AΔ	54	5C	Z007	CN18	1 Darl;2TR;Veb 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
47	CA3018Aℤ	54	5C	Z007	CN18	1 Darl;2TR;Veb 5.0VΔ;BVCBO 30VΔ;BVCEO 15VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 60*;ft 300MHz*.
48	CA3018H	54	5C	Z007	FC16c	1 Darl;2TR;VEBO 5.0VΔ;BVCBO 2.0VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 30*.
49	CA3018L	54	5C	Z007	FC18	1 Darl;2TR;VEBO 5.0VΔ;BVCBO 2.0VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 30*.
50	CA3026Δ	54	5C	Z008b	Δ006AG	6TR;Veb 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
51	CA3036	54	5C	Z009	CN17h	2 Darl.pairs;BVEBO 5.0VΔ;BVCBO 30VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hfe 82;fT 200MHz.
52	CA3045	54	5C	Z010	MP3	5TR;BVEBO 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 40*;ICBO 40nAΔ.
53	CA3045H	54	5C	Z010	FC16c	5TR;VEB 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 110†.
54	CA3045L	54	5C	Z010	FC18	5TR;VEB 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 110†.
55	CA3046	54	08	Z010	TO116	5TR;BVEBO 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 40*;ICBO 40nAΔ.
56	CA3049Δ	54	5C	Z008b	Δ006AG	6TR;Veb 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
57	CA3049ℤ*	54	5C	Z008a	CN18	6NPN TR;BVCBO 20VΔ;BVCEO 15V;BVEBO 5.0V;IC 50mA;Pd 600mWΔ;ft 1.3GHz.
58	CA3049H*	54	5C	Z008a	FC16m	6NPN Trans;BVCBO 20VΔ;BVCEO 15V;BVEBO 5.0V;IC 50mA;Pd 600mWΔ;ft 1.3GHz.
59	CA3049L*	54	5C	Z008a	FC18	6NPN Trans;BVCBO 20VΔ;BVCEO 15V;BVEBO 5.0V;IC 50mA;Pd 600mWΔ;ft 1.3GHz.
60	CA3081	54	48	Z161	Δ001AC	7NPN Trans;Pd 750mW;BVCBO 20V;BVCEO 24V;BVEBO 6.9V;hFE 68,IC 30mA.
61	CA3081H	54	48	Z161	FC16u	7 NPN TRANS;Pd 750mW;BVCBO 20V;BVCEO 24V;BVEBO 6.9V;hFE 68;IC 30mA.
62	CA3082	54	48	Z162	Δ001AC	7NPN Trans;Pd 750mW;BVCBO 20V;BVCEO 24V;BVEBO 6.9V;hFE 68,IC 30mA.
63	CA3082H	54	48	Z162	FC16u	7 NPN TRANS;Pd 750mW;BVCBO 20V;BVCEO 24V;BVEBO 6.9V;hFE 68;IC 30mA.
64	CA3083	54	48	Z163	Δ001AC	5NPN Trans;Pd 750mW;BVCBO 60V;BVCEO 24V;BVEBO 6.9V;hFE 76,IC 10mA.
65	CA3083H	54	48	Z163	FC16u	5NPN Trans;Pd 750mW;BVCBO 60V;BVCEO 24V;BVEBO 6.9V;hFE 76;IC 10mA.
66	CA3084	54	48	Z261	Δ001AB	PNP Array;1 Darl;1 current mirror;2 PNP TR;VCBO 80V†;VCEO 70V†;VEBO 100V†.
67	CA3084H	54	48	Z261	FC16v	PNP Array;1 Darl;1 current mirror;2 PNP TR;VCBO 80V†;VCEO 70V†;VEBO 100V†.
68	CA3084L	54	48	Z261	FC17	PNP Array;1 Darl;1 current mirror;2 PNP TR;VCBO 80V†;VCEO 70V†;VEBO 100V†.
69	CA3086Δ	54	48	Z010	TO116	5TR;Veb 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
70	CA3086ℤ	54	48	Z164	Δ001AB	3NPN TR;Pd 750mW;BVCBO 60V;BVCEO 24V;BVEBO 7.0V;hFE 100;IC 1.0mA.
71	CA3093E	54	48	Z194	Δ001AC	Transistor-Zener Diode-Diode Array;Pd 750mW;BVCBO 20V;IC 100mA;Iz 35mA.
72	CA3093H	54	48	Z194	FC16u	Transistor-Zener Diode-Diode Array;Pd 750mW;BVCBO 20V;IC 100mA;Iz 35mA.
73	CA3095E	54	5C	Z262	Δ001AC	Super Beta Array;VCBO 6.0V;VEBO 8.0V†;hFE 5000;VBE .68V;fT 320MHz.
74	CA3096AE	54	5C	Z263	Δ001AC	3NPN;2PNP;NPN VCEO 35V;PNP VCEO 40V;NPN VCBO 45V;PNP VCBO 40V;NPN VEBO 6.0V;PNP VEBO 40V.
75	CA3096E	54	5C	Z263	Δ001AC	3NPN;2PNP;NPN VCEO 35V;PNP VCEO 40V;NPN VCBO 45V;PNP VCBO 40V;NPN VEBO 6.0V;PNP VEBO 40V.
76	CA3097E	54	5C	Z281	Δ001AC	Thyristor/Trans.Array;Pd 500mWΔ;BVCBO 50VΔ;BVEBO 5.0VΔ;BVCEO 30VΔ;Ic 100mAΔ;tr 60ns.
77	CA3118AT	54	5C	Z007	Δ006AG	4 tran;Pt 450mW;BVCBO 50V;BVCEO 40V;BVEBO 5.0V;Ic 50mA;hFE 100†.
78	CA3118H	54	5C	Z007	FC16c	4 TRAN;Pt 450mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 50mA;hFE 100†.
79	CA3118T	54	5C	Z007	Δ006AG	4 tran;Pt 450mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 50mA;hFE 100†.
80	CA3146AE	54	48	Z010	Δ001AB	5 tran;Pt 750mW;BVCBO 50V;BVCEO 40V;BVEBO 5.0V;IC 50mA;hFE 100†.
81	CA3146E	54	48	Z010	Δ001AB	5 tran;Pt 750mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 50mA;hFE 100†.
82	CA3146H	54	48	Z010	FC16c	5 TRAN;Pt 750mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 50mA;hFE 100†.
83	CA3183AE	54	48	Z163	Δ001AC	5 tran;Pt 750mW;BVCBO 50V;BVCEO 40V;BVEBO 5.0V;IC 75mA;hFE 40*.
84	CA3183E	54	48	Z163	Δ001AC	5 tran;Pt 750mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 75mA;hFE 40*.
85	CA3183H	54	48	Z163	FC16u	5 Trans;Pt 750mW;BVCBO 40V;BVCEO 30V;BVEBO 5.0V;IC 75mA;hFE 40*.
86	LA3018	54	5C	Z007	CN18	1 Darl. 2TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
87	LA3018A	54	5C	Z007	CN18	1 Darl. 2TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
88	LA3026	54	5C	Z008b	Δ006AG	6TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
89	LA3045	54	5C	Z010	MP3	5TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
90	LA3046	54	08	Z010	TO116	5TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
91	LA3049	54	5C	Z008b	Δ006AG	6TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
92	LA3086	54	48	Z010	TO116	5TR;VEB 5.5V;BVCBO 30V;BVCEO 24V;hFE 100*;ft 900Mt.
93	LM3018AH	54	5C	Z007	CN18	4 Trans;2 Darl;BVCBO 30VΔ;BVCEO 15VΔ;BVEBO 5.0VΔ;IC 50mA.
94	LM3018H	54	5C	Z007	CN18	4 Trans;2 Darl;BVCBO 20VΔ;BVCEO 15VΔ;BVEBO 5.0VΔ;IC 50mA.
95	LM3045D	54	5C	Z010	MP148	5 Trans;VEBO 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;hFE 100*;ft 300mt;Pd 750mW.
96	LM3046N	54	07	Z010	MP39	5 Trans;VEBO 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;hfe 100*;ft 300mt;Pd 750mW.
97	LM3086N	54	07	Z010	MP39	5 Trans;VEBO 5.0VΔ;BVCBO 60V;BVCEO 24VΔ;hFE 100*;ft 550Mt.
98#	M5106P§	54	27	C062	MP55	2Trn. and 1.0W Po Audio Power Amplifier.
99#	M5109P*	54	27	Z008	MP14j	Dual Differential Amp. and Diode;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ.
100	MN205	54	5C		FP6g	Quad NPN Transistors;Pt 500mW;BVCBO 60Vmin;tr 50 nsec max;tf 90 nsec max.
101	MN206	54	5C		FP6g	Quad NPN transistors;Pt 500mW;BVCBO 60Vmin; tr20nsec max;tf 90nsec max.
102▼	MPQ918	54	5E	Z188	TO116	NPN High Frequency Amp Trans;Pd 1.2WΔ;BVCEO 15VΔ;BVCBO 30VΔ;BVEBO 3.0VΔ;IC 50mAΔ.
103	MPQ2483	54	5F	Z188	TO116	Quad Dual-In-Line NPN Silicon Annular Amplifier Transistors;Pd 1.2W;No 3.0dBt.
104	MPQ2484	54	5F	Z188	TO116	Quad Dual-In-Line NPN Silicon Annular Amplifier Transistors;Pd 1.2W;No 2.0dBt.
105	MPQ3798	54	5F	Z188a	TO116	Quad Dual-In-Line PNP Silicon Annular Amplifier Transistors;Pd 1.2W;No 2.5dBt.
106	MPQ3799	54	5F	Z188a	TO116	Quad Dual-In-Line PNP Silicon Annular Amplifier Transistors;Pd 1.2W;No 1.5dBt.
107	MPQ6001	54	5F	Z189	TO116	Quad Dual-In-Line Silicon Annular Complementary Pair Trans;Pd 1.2W;hFE 25*.
108▼	MPQ6100	54	5E	Z189	TO116	Complementary Pair Trans;Pd 1.2WΔ;BVCEO 40VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 50mAΔ.
109▼	MPQ6100A	54	5E	Z189	TO116	Complementary Pair Trans;Pd 1.2WΔ;BVCEO 45VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 50mAΔ.
110▼	MQ930	54	6K		FP24b	NPN Multiple Trans;Pd 600mWΔ;BVCEO 45VΔ;BVCBO 60VΔ;BVEBO 6.0VΔ;IC 30mAΔ.

LINE No.	[2] TYPE No.	[1] USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1▼	MQ1120	54	6K		FP24b	Multiple Trans;Pd 600mWΔ;BVCEO 30VΔ;BVCBO 60VΔ;BVEBO 5.0V;IC 500mA;fT 250MHz.
2▼	MQ2218	54	6K		FP24b	Multiple Trans;Pd 625mWΔ;BVCEO 30VΔ;BVCBO 60VΔ;BVEBO 5.0V;IC 500mA;fT 250MHz.
3▼	MQ2218A	54	6K		FP24b	Multiple Trans;Pd 625mWΔ;BVCEO 30VΔ;BVCBO 60VΔ;BVEBO 5.0V;IC 500mA;fT 250MHz.
4▼	MQ2219	54	6K		FP24b	Multiple Trans;Pd 625mWΔ;BVCEO 30VΔ;BVCBO 60VΔ;BVEBO 5.0V;IC 500mA;fT 250MHz.
5▼	MQ2219A	54	6K		FP24b	Multiple Trans;Pd 625mWΔ;BVCEO 30VΔ;BVCBO 60VΔ;BVEBO 5.0V;IC 500mA;fT 250MHz.
6▼	MQ2484	54	6K		FP24b	NPN Multiple Trans;Pd 600mWΔ;BVCEO 60VΔ;BVCBO 60VΔ;BVEBO 6.0VΔ;IC 30mAΔ.
7▼	MQ2904	54	6K	Z188a	TO86	PNP;Pd 500mWΔ;BVCEO 40VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 600mAΔ;fT 200MHz*.
8▼	MQ2905A	54	6K	Z188a	TO86	PNP;Pd 500mWΔ;BVCEO 60VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 600mA;fT 200MHz*.
9▼	MQ3467	54	6K	Z188a	TO86	PNP;Pd 500mWΔ;BVCEO 40VΔ;BVCBO 40VΔ;BVEBO 5.0VΔ;IC 1.0A;fT 250MHz.
10▼	MQ3762	54	6K	Z188a	TO86	PNP;Pd 500mWΔ;BVCEO 40VΔ;BVCBO 40VΔ;BVEBO 5.0VΔ;IC 1.5AΔ;fT 250MHz.
11▼	MQ3799	54	6K	Z188a	TO86	PNP;Pd 500mWΔ;BVCEO 60VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 50mAΔ;fT 100MHz*.
12▼	MQ3799A	54	6K	Z188a	TO86	Matched PNP;Pd 500mWΔ;BVCEO 60VΔ;BVCBO 60VΔ;BVEBO 5.0VΔ;IC 50mAΔ;fT 100MHz*.
13▼	MQ7007	54	6K		FP24b	NPN Multiple Trans;Pd 600mWΔ;BVCEO 40VΔ;BVCBO 50VΔ;BVEBO 5.0V;IC 200mA;fT 600MHz.
14#	SFC2018M	54	5C	Z007	TO101	1 DARL;2TR;VEB 5V;V(BR)CBO 40V;V(BR)CEO 25V;hfE 100;fT 500†
15#	SFC2046E	54	08	Z010	TO116	5 TR;VEB 5V;V(BR)CBO 40V;V(BR)CEO 25V;hfE 100;fT 500†
16	SG3081J	54	48	Z161	MP178c	7 Trans(NPN);Pd 750mW;BVCBO 20V;BVCEO 20V;BVEBO 5V;hFE 68;Ic 100mA.
17	SG3081N	54	48	Z161	MP252c	7 Trans(NPN);Pd 750mW;BVCBO 20V;BVCEO 20V;BVEBO 5V;hFE 68;Ic 100mA.
18	SG3082J	54	48	Z161	MP178c	7 Trans(NPN);Pd 750mW;BVCBO 20V;BVCEO 16V;BVEBO 5V;hFE 50;Ic 100mA.
19	SG3082N	54	48	Z161	MP252c	7 Trans(NPN);Pd 750mW;BVCBO 20V;BVCEO 16V;BVEBO 5V;hFE 50;Ic 100mA.
20	SG3083J	54	5C	Z163	MP178c	5NPN Trans;Pd 750mW;BVCBO 60V†;BVCEO 24V†;BVEBO 6.9V†;hFE 75;Ic 100mA.
21	SG3083N	54	48	Z163	MP252c	5NPN Trans;Pd 750mW;BVCBO 60V†;BVCEO 24V†;BVEBO 6.9V†;hFE 75;Ic 100mA.
22	SG3183AJ	54	5C	Z163	MP178c	5NPN Trans;Pd 750mW;BVCBO 70V†;BVCEO 50V†;BVEBO 6.9V†;hFE 75;Ic 100mA.
23	SG3183AN	54	48	Z163	MP252c	5NPN Trans;Pd 750mW;BVCBO 70V†;BVCEO 50V†;BVEBO 6.9V†;hFE 75;Ic 100mA.
24	SG3183J	54	5C	Z163	MP178c	5 NPN Trans;Pd 750mW;BVCBO 70V†;BVCEO 40V†;BVEBO 6.9V†;hFE 75;IC 100mA.
25	SG3183N	54	48	Z163	MP252c	5NPN Trans;Pd 750mW;BVCBO 70V†;BVCEO 40V†;BVEBO 6.9V†;hFE 75;Ic 100mA.
26	SG3821N	54	07	Z010	TO116	Matched;5 trn;BVcbo 40VΔ;BVceo 25VΔ, Ic 20mAΔ, Pd 300mW, hfe 100†;fT 950MHz.
27	SG3822N	54	07	Z008a	TO116	Dual Differential;6 NPN trn;BVcbo 40VΔ;BVceo 25VΔ;Ic 20mAΔ;Pd 300mWΔ;hFE 30;fT 950MHz.
28	SG3823N	54	07	Z007	TO116	Dual Darlington;1 Darl.2 trn;BVcbo 40VΔ;BVceo 25VΔ;Ic 20mAΔ;Pd 300mWΔ;hFE 30*;fT 950MHz.
29	SI3045AK	54	5C	Z010	Δ001AD	5TR;BVEBO 5.0VΔ;BVCBO 20VΔ;BVCEO 15VΔ;Ic 50mAΔ;Pd 300mWΔ;hFE 110†;ft 300MHz*.
30#	SL3045	54	5H	Z010	MP14y	5 Trans;VBE 5.0mV;BVCBO 20V*;BVCEO 15V*;IC 50mA;hFE 40 at VCE 3.0V.
31#	SL3145	54	5F	Z010	MP319	5 Trans;Pt 350mW;BVCBO 12V;BVCEO 8V;IC 20mA;NF 1.6dB Typ.
32#	TBA331	54	08	Z010	TO116	5trn;VEB 5.0VΔ;VCBO 20VΔ;VCEO 15VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 100;FT 300MHz.
33#	TBA470A	54	16	Z150	TO116	Pt 250mW;VCE Sat 400mV max;IC 25mA;IB 25mA;VCEO 22V;TCEO 100nA max.
34#	TBA470B	54	16	Z150	MP50	Pt 250mW;VCE Sat 400mV max;IC 25mA;IB 25mA;VCEO 22V;ICEO 100nA max.
35#	TBA770	54	5C		TO100	3trn;VEB 5.0VΔ;VCBO 35VΔ;VCEO 16VΔ;IC 50mAΔ;Pd 300mWΔ;hFE 100;FT 300MHz.
36#	TCA671	54	4E		MP39	5 Trans NPN;VCBO 45V;VCEO 42V;VEBO 6.0V;Ic 200mA;fT 350MHz.
37#	TCA871	54	4E		MP39	5 TRANS NPN;VCBO 45V;VCEO 32V,VEBO 6.0V,IC 200mA, fT 350MHz.
38▼#	TDA0470	54	16	Z343	TO116	Linear operating gate for replacing up to (12) key-contacts per key in electronic organs.
39	ULN2046A	54	08	Z221	MP153a	3 Isol.TR and 1 Diff Amp;VCB 30VΔ;ICBO 40nAΔ;ft 550MHz†;NF 3.25dB†.
40	ULN2054A	54	08	Z222	MP153a	Dual Diff.Amp;VCB 20V*;ICBO 100nAΔ;ft 550MHz†;NF 3.25dB†.
41	ULN2081A	54	48	Z161	MP14w	7NPN Trans;Pd 750mW;BVCBO 20V;BVCEO 16V;BVEBO 5V;hFE 40*;Ic 200mA;ICBO 1.0uAΔ.
42	ULN2082A	54	48	Z162	MP14w	7NPN Trans;Pd 750mW;BVCBO 20V;BVCEO 16V;BVEBO 5V;hFE 40*;Ic 200mA;ICBO 1.0uAΔ.
43	ULS2045H	54	5C	Z221	MP152a	3 Isol.TR and 1 Diff Amp;VCB 30VΔ;ICBO 40nAΔ;ft 550MHz†;NF 3.25dB†.
44	LM103-1.8	55	5C	Z005	CN25	Vref 1.8V†;Zdyn 60ΩΔ;Pd .25WΔ;Tc 3.3mV/°C†.
45	LM103-2.0	55	5C	Z005	CN25	Vref 2.0V†;Zdyn 60ΩΔ;Pd .25WΔ;Tc 3.3mV/°C†.
46	LM103-2.2	55	5C	Z005	CN25	Vref 2.2V†;Zdyn 60ΩΔ;Pd .25WΔ;Tc 3.3mV/°C†.
47	LM103-2.4	55	5C	Z005	CN25	Vref 2.4V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
48	LM103-2.7	55	5C	Z005	CN25	Vref 2.7V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
49	LM103-3.0	55	5C	Z005	CN25	Vref 3.0V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
50	LM103-3.3	55	5C	Z005	CN25	Vref 3.3V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
51	LM103-3.6	55	5C	Z005	CN25	Vref 3.6V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
52	LM103-3.9	55	5C	Z005	CN25	Vref 3.9V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
53	LM103-4.3	55	5C	Z005	CN25	Vref 4.3V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
54	LM103-4.7	55	5C	Z005	CN25	Vref 4.7V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
55	LM103-5.1	55	5C	Z005	CN25	Vref 5.1V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
56	LM103-5.6	55	5C	Z005	CN25	Vref 5.6V†;Zdyn60ΩΔ;Pd.25WΔ;Tc3.3mV/°C†.
57	LM113H	55	5C	Z176	CN25	Vref 1.22;Zdyn 1.0ΩΔ;Pd 100mWΔ;TC .01%°C.
58	HEPC6050G-RT	56	5C	Z089	CN17b	Balanced Modulator-Demodulator;Pd 680mW;Gain 30dB typ;3dB BW 300MHz;ΔVs 20Vdc§.
59	TAB101	56	07	Z001	TO74	Ring 4 trans. modulator/demodutor circuit;Vobo-10V;Vcs-12;Ic-10mA;Pt-100mW.
60♦#	TBA673	56	2C	Z001	CN27a	Ring 4-Trans Modulation/Demodulation;BVEBO 6.2VΔ;IC 20mAΔ;Pt 200mWΔ.
61	751N	57	28	Z012	MP67	BVcbo 40VΔ;BVebo4VΔ;BVceo25VΔ;Ic.10AΔ;Pd.30WΔ;hFE100*at Ic10uA.
62	751P	57	28	Z012	MP67	BVcbo 40VΔ;BV3bo 5VΔ;BVceo 40VΔ;Ic 50mAΔ;Pd .50WΔ;hFE 100* at Ic 10uA.
63	CA3039	58	5C	Z013	CN18	6 Dio;PIV 5.0VΔ;IF 25mAΔ;VF .90VΔ;IR .10uAΔ;trr 1.0ns†;Cd .65pf†;Pd 100mWΔ.
64	MIC726-1	58	5C	Z011	TO96	BVebo5.0VΔ;BVcbo40VΔ;BVceo30VΔ;Ic5.0mAΔ;Pd180mWt;hFE1.5*atIc.10mA;Vce5.0V.
65	MIC726-5	58	08	Z011	TO96	BVebo5.0VΔ;BVcbo40VΔ;BVceo30VΔ;Ic5.0mAΔ;Pd180mWt;hFE1.5*atIc.10mA;Vce5.0V.
66	uA726HC	58	08	Z011	TO100	VCBO 40V;VCEO 30V;VEBO 5.0V;IC 5.0mA;Volt Drift 2.0uV/°C;Off.Volt 3.0V.
67	uA726HM	58	5C	Z011	TO100	VCBO 40V;VCEO 30V;VEBO 5.0V;IC 5.0mA;Volt Drift 1.0uV/°C;Off.Volt 2.5mV.
68	320	59	08		OCT	Magnetic Tape Record Amp; PD750mw;ΔVS48V;Ro10Ω,Vo1.0V.
69	320VF	59	05		MP132	Volt-Freq Conv;Acc 1.0%;Input 0 to 10V;Output 0 to 1.0kHz.
70	330VF	59	05		MP132	Volt-Freq Conv;Acc 1.0%;Input 0 to 10V;Output 0 to 10kHz.
71	340VF	59	05		MP132	Volt-Freq Conv;Acc 1.0%;Input 0 to 10V;Output 0 to 100kHz.
72	509-01	59		Z336	CN49	Optical Detectors;BW 10MHzΔ;Bias Volt 15V;No 1.0mVΔ;Spectral Range 11.2kAΔ.
73	509-1	59		Z336	CN49	Optical Detectors;BW 10MHzΔ;Bias Volt 15V;No-1.0mVΔ;Spectral Range 11.2kAΔ.
74	509-10	59		Z336	CN49	Optical Detectors;BW 10MHzΔ;Bias VoH 0.0V;No 1.0mVΔ;Spectral Range 11.2kAΔ.
75	509-0015	59		Z336	CN49	Optical Detectors;BW 10MHzΔ;Bias Volt 15V;No 1.0mVΔ;Spectral Range 11.2kAΔ.
76	509-50	59		Z336	CN49	Optical Detectors;BW 10MHzΔ;Bias Volt 0.0V;No 1.0mVΔ;Spectral Range 11.2kAΔ.
77	791	59	58		MP65a	Phase to Voltage Converter;Vi 0 to 10Vpp;Vo ± 10V;Acc. ± 3.0%;Rpl. 1.0%pp.
78	881	59	06	Z337	MP369	Universal Active Filter,Freq 10kHzΔ;Q .50-50Adj.
79	882	59	06			Touch-tone Bandpass Filter, preset to tone fo ±0.5%, Q18, Unity gain at fo.
80	1391	59	05		MP193	Charge Preamplifier;Freq. 20kHzΔ;Acc. ±1.0%;No 25uV;Harm.Dist. .50%Δ.
81	1392	59	05		MP193a	Charge Preamplifier;Freq. 20kHzΔ;Acc. ±2.0%;No 200uV;Harm.Dist. .50%Δ.
82	1395	59	58		MP193b	Charge Preamplifier;Freq. 20kHzΔ;Acc. ±1.0%;No 25uV;Harm.Dist. .50%Δ.
83	1396	59	58		MP193c	Charge Preamplifier;Freq. 20kHzΔ;Acc. ±2.0%;No 200uV;Harm.Dist. .50%Δ.
84	1474	59	58		MP193d	Charge-Velocity Converters;Freq. 20kHzΔ;Acc. ±1.0%;No ±600uV;Dist. .50%Δ.
85	1475	59	58		MP193d	Charge-Velocity Converters;Freq. 20kHzΔ;Acc. ±1.0%;No ±10mV;Dist. .50%Δ.
86	1476	59	58		MP193d	Charge-Velocity Converters;Freq. 20kHzΔ;Acc. ±1.0%;No ± 3.0mV;Dist. .50%Δ.
87▼	2740BE	59			TO99	FET Input Operational Amp;ΔVS 22V;Pd 100mWΔ;Ri 100kΩ*;ΔVo 20V*.
88▼	2740CE	59			TO99	FET Input Operational Amp;ΔVS 22V;Pd 100mWΔ;Ri 100kΩ*;ΔVo 20V*.
89▼	2740DE	59			TO99	FET Input Operational Amp;ΔVS 22V;Pd 100mWΔ;Ri 50kΩ*;ΔVo 20V*.
90	3010	59	28	Z338	MP148	Tone Alarm;VS 4.5V-18V;Vi 5.0VΔ;Io 50mAΔ;Pulsating Outp. 100mAΔ.
91	3030	59	2A	Z339	MP148	Temperature Alarm;VS 4.5V-18V;Is 8.0mAΔ;Io 10mAΔ;Temp.Ref.Acc. ±3.0°C.
92	3040	59	28	Z340	MP148	Quad/Monitor Alarm;VS 4.5V-18V;Is 6.0mAΔ;Io 100mAΔ;Vi 5.0VΔ;Inp Trigger Acc 22%Δ.
93	3050	59	28	Z341	MP148	AC Detector;VS 4.5V-18V;Is 6.0mAΔ;Inp.Imp. 100kΩ;Freq 1.0MHz;Outp.Sink Cur. 500uAΔ.
94▼	4022-25	59	28		MP2t	Window Comparator;Vi 30VΔ;Zi 10kΩ;ACC ±0.2%;VS ±15Vdc;IS plus 25,-10mA.
95	4115-04	59	28		MP310	Window Comparator;Vi 30VΔ;Acc ±0.2mV min D.C.res;ZO 1MΩ;VS ±15Vdc;ID ±15mAΔ.
96	4128	59	28		MP300	RMS-TO-DC Converter;Vs±15Vdc;Pd 90mt;Vo 20Vdc;Io 10mA;Vi 20Vdc.
97▼	4301	59	07		MP371	Multifunction Converter;VS ±15Vdc;IQuies ±10mA.
98▼	4340	59	28		MP371	RMS-to-DC Converter;VI 30Vdc;Pd 360m;VO 10Vdc;IO 5mA min.
99	A600	59				Thermacouple Amp. w/Reference Compensation Unit.
100	A601	59			MP179b	Thermacouple Amp.w/Reference Compensation Unit.
101	A602	59			MP199a	Thermacouple Amp.w/Reference Compensation Unit.
102#	AN155	59		Z173	CN28	Voltage stabilizer for capacitance diodes in TV tuners;Vs 32V;Is 5.0mA
103#	AN241	59	27	Z064	TO116	IF Amp-Limiter;FM detector,Electronic Attenuator,Audio Driver;Ro 270Ω;Ri 50kΩ;Pd 370mW†
104#	AN301	59	16		MP178	Control Signal Process Circuit for VTR (Pt 490mW)
105▼#	AN303	59	16	Z354	MP353	VTR Noise Suppression Circuit;Vs 14.4V;VIN .3V(Video);VO1Vp-p(RL75Ω);S/N Improvement 4dB.
106#	AN304	59	26	Z300	TO116	VTR Video FM Limiter Circuit;Vs 9-12V;Gv 80dB at 4MHz;2nd Harmonics 40dB.
107#	AN605	59	16	Z3Q1	TO116	VTR Automatic Tape Loading Circuit;Vs 9-12V;5 X Schmidt trigger;1DC Amp.
108#	AN915	59	26	Z247	TO116	General purpose differential amplifier (Pt 445mW).
109	CA3043§	59	5C	C026	CN18	High-Gain IF Amp/Limiter/FM Detector/AM Preamp/Driver for FM up to 20MHz.
110	CA3044§	59	5C	D017	CN10d	Wide-Band Amp/Phase Detector with Zener Diode Voltage Regulator/for AFC Systems.

LINE No.	[2] TYPE No.	[1] USE	TYPE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	CA3044V1§	59	5C	D017	CN19	Wide-Band Amp/Phase Detector with Zener Diode Voltage Regulator/for AFC Systems.
2	CA3050§	59	5C	B038	MP3	2 Darlington diff amp with diode bias string;Pd 900mW;VBE 800mV;Ic 50mA;ft 600MHzt
3	CA3051§	59	28	B038	TO116	2 Darlington diff amp with diode bias string;Pd 750mW;VBE 800mV;Ic 50mA;Ft 600MHzt.
4	CA3062	59	5C	Z063	CN18a	Photo Detector and Power Amp;Pd 700mW;Is 5.5mA;Idark 100nA.
5	CA3065	59	48	Z064	MP50	IF Amp-Limiter;FMdetector,Electronic Attenuator,Audio Driver;Ro 270Ω;Ri 70kΩ.
6	CA3065D	59	48	Z064	TO116	IF Amp-Limiter;FM Detector, Electronic Attenuator, Audio Driver;Ro 270Ω;Ri 70kΩ.
7	CA3065E	59	48	Z064	MP252f	IF Amp-Limiter;FM Detector, Electronic Attenuator, Audio Driver;Ro 270Ω;Ri 70kΩ.
8	CA3075H	59	48	Z090	FC16q	FM IF Amplifier-Limiter,Detector,Audio Preamp;VS 12.5V;Pd 760mW;Gain 21db.
9	CA3076H§	59	5C	D031	FC16r	Wide-Band IF Amplifier-Limiter;Pd 500mW;Vs 15V;Vo 12mV;Noise Volt 1.0mV.
10▼	D555CJ	59			TO116	Dual Timer;ΔVS 18V;Pd 530mWΔ;ΔVi 4.5V*;ΔVo 16V*.
11	DCI177	59	58		MP132	DC TO DC Signal Isolator;Vi -10 to plus 10V;Linearity ± 1.0%;Rpl. less than 1.0%.
12	DCI178	59	58		MP132	DC TO DC Signal Isolator;Vi -50 to plus 50mV;Linearity ± .10%;Rpl. less than .50%.
13	ECA118	59	5A		MP145	Electronic Control Amp;Vi 11.8V line to line;Ri 100k;Acc. 3.0 arc min.
14	FS21§	59	07		MP2	Fast settling amplifier;Settling time to .5% 100ns max. to .05% 1.0us max;Po 20mA.
15	HEPC6009-RT	59	07	C088	MP166	Electronic Attenuator;Pd 1.0W;Attenuation Range 70dB min;THD 1.0% max;AV 11dB min.
16▼	IPL13	59			CN50	Light to Frequency converter;VS -30V at 1mA;Linearity ±2% typ.
17▼	IPL16A	59			CN51	Analogue Photodetector;Upper 3dB paint 2.5kHz min;Responsivity 290mV/uW1/cm2.
18▼	IPL16B	59			CN51	Analogue Photodetector;Upper 3dB paint 25kHz min;Responsivity 29mV/uW1/cm2.
19▼	IPL16C	59			CN51	Analogue Photodetector;Upper 3dB paint 250kHz min;Responsivity 2.9mV/uW1/cm2.
20	LM566CH	59	07	Z295	TO99	Voltage Controlled Oscillator;Max Oper.Freq. 1.0MHz;VS 26V.
21	LM566CN	59	07	Z295	MP189	Voltage Controlled Oscillator;Max Oper.Freq. 1.0MHz;VS 26V.
22	LM566H	59	5C	Z295	TO99	Voltage Controlled Oscillator;Max Oper.Freq. 1.0MHz;VS 26V.
23	LM567CH	59	5C	Z294	TO99	Tone Decoder;VS 10V;Pd 300mW;Ri 20kΩt;Hi Center Freq. 100kHz*.
24	LM567CN	59	5C	Z294	MP189	Tone Decoder;VS 10V;Pd 300mW;Ri 20kΩt;Hi Center Freq. 100kHz*.
25	LM567H	59	5C	Z294	TO99	Tone Decoder;VS 10V;Pd 300mW;Ri 20kΩt;Hi Center Freq. 100kHz*.
26	LM1841N	59	28	Z292	MP39n	FM Detector and Limiter;VS 20V;Pd 850mW;Is max 22mA;VO 7.8Vt.
27	LM2111N01	59	08	Z080	MP336	FM Detector and Limiter;VS 15V;Pd 850mW;IS 22mA.
28	LM2111N	59	08	Z080	MP39n	FM Detector and Limiter;VS 15V;Pd 850mW;IS 22mA.
29	LM2113N01	59	08	Z080	MP336	FM Detector and Limiter;VS 14V;Pd 850mW;IS 22mA.
30	LM2113N	59	08	Z080	MP39n	FM Detector and Limiter;VS 14V;Pd 850mW;IS 22mA.
31#	M5170T	59	26	Z184	TO100	Alarm Circuit;VS 50VΔ.
32	NE567T	59	07	Z172	CN1g	Tone and frequency decoder;Freq. 500kHz;Pd 300mW;Ri 20kΩ.
33	NE567V	59	07	Z172	MP216	Tone and frequency decoder;Freq. 500kHz;Pd 300mW;Ri 20kΩ.
34▼	R47M10§	59	3A		MP358a	Integrated UHF Power Amp;VCC 15V;Freq Rng 440-470MHz;Zin-out 50Ω.
35▼	R47M13§	59	3A		MP358a	Integrated UHF Power Amp;VCC 15V;Freq Rng 440-470MHz;Zin-out 50Ω.
36▼	R47M15§	59	3A		MP358a	Integrated UHF Power Amp;VCC 15V;Freq Rng 440-470MHz;Zin-out 50Ω.
37	RC555DN	59	07		MP189	Monolithic Timing Ckt;Sink or Source 200mA;Adj.Duty Cycle Stability .005%/°C.
38	RC555T	59	07		TO99	Monolithic Timing Ckt;Sink or Source 200mA;Adj.Duty Cycle Stability .005%/°C.
39	RM555T	59	5C		TO99	Monolithic Timing Ckt;Sink or Source 200mA;Adj Duty Cycle Stability .005%/°C.
40#	SAS560	59	26		MP192	Switch amplifier for touch control with high sensitivity;VS 12/30V;Iout 35mA.
41#	SAS570	59	26		MP192	Switch amplifier for touch control with high sensitivity;VS 12/30V;Iout 35mA.
42	SE567T	59	5C	Z172	CN1g	Tone and frequency decoder;Freq. 500kHz;Pd 300mW;Ri 20kΩ.
43▼	SG555CM	59	07	Z360	MP399	Monolithic Timing;Sink or Source 200mA;Adj Duty Cycle Stub;Timing Error .005%/°C;Pd400mWΔ
44▼	SG555CT	59	07	Z360	TO99	Monolithic Timing;Sink or Source 200mA;Adj Duty Cycle Stub;Timing Error .005%/°C;Pd680mWΔ
45▼	SG555T	59	5C	Z360	TO99	Monolithic Timing;Sink or Source 200mA;Adj Duty Cycle Stub;Timing Error .005%/°C;Pd 680mWΔ
46▼	SG556CJ	59	07		TO116	Dual Timing Ckt;Sink or Source 200mA;Adj Duty Cycle/Space Stub;Timing Error .005%/°C.
47▼	SG556CN	59	07		MP39a	Dual Timing Ckt;Sink or Source 200mA;Adj Duty Cycle/Space Stub;Timing Error .005%/°C.
48▼	SG556J	59	5C		TO116	Dual Timing Ckt;Sink or Source 200mA;Adj Duty Cycle/Space Stub;Timing Error .005%/°C.
49#	SL645C	59	27	Z232	CN11b	Two Quadrant Square Law Element;Frequency Doubler:Supplies ±5Volts at 5mA max.
50#	SL1020	59	2C			Channel Amp;Control Current Change 300uAΔ;Gain Range 7.4db;Linearity plus .30db.
51	TAA550	59	F		CN28	Voltage stabilizer for capacitance diodes in TV tuners;Vt-33ΔV;Pd-50mW.
52#	TAA560	59	06	Z178	TO72	Level Detector;Shutter Control Circuit;Vs 2.5V;Pd 120mWΔ;Vo 12.5VΔ
53#	TAA580	59	26	Z104	FP16	Level detector;VS 4.5VΔ;Vo 12VΔ;Io 70mAΔ;Pt 180mW.
54#	TAA780A	59	24	Z057	MP120	Stabilizing Circuit;stabilized volt. 1.1Vt;stabilizing current 1.0mA;hfe 250.
55#	TAA780B	59	24	Z057	MP137	Stabilizing Circuit;stabilized volt. 1.1Vt;stabilizing current 1.0mA;hfe 250.
56#	TAA790A	59	06		TO116	Controlled Pulse Generator for pulse separation and line synch;VO8.0V;Ro1.0k;f15.6kHZ.
57#	TAA790B	59	06		MP50	Controlled Pulse Generator for pulse separation and line synch;VO8.0V;Ro1.0k;f15.6kHZ.
58#	TBA271	59	07		TO18	Varicap Supply; Iz 5.0mA; Vz 30 to 36V; Diff. Resistance 10Ω.
59#	TBA840	59	15	Z208	MP137	1-Coil Driver Ckt for battery-powered wrist watches;Vs 1.5V.
60#	TBA880	59	37	Z313	TO12	Microphone Amplifier;IS 100mAΔ;Voltage drop 4.8Vt;Gain 210Gvt.
61#	TBA940	59	05		TO116	Controlled Pulse Generator for pulse separ.and line sync.in TV Rec.w/SCR line Out stage.
62#	TBA950	59	05		TO116	Controlled Pulse Gen.for pulse separ.and line sync.in TV Rec.w/TR line Out stage.
63#	TCA105	59	27			Threshold Detector
64#	TCA105W	59	27			Threshold Detector.
65#	TCA250	59	06		TO116	Double Filter Amp.for Act.Filters in the AF Range,e.g.for electronics organs.
66#	TCA345A	59	27		MP340	THRESHOLD DETECTOR
67#	TCA350	59	26	Z255	TO73	Delay Line for analogue signals.
68#	TCA430	59	16		MP192a	4 RC Oscillators for Master Oscillators in electronic organs.
69▼#	TCA430N	59	16		MP192a	4RC Oscillators for Master Oscillators in Electronic Organs.
70#	TCA450	59	28	Z326	MP368	Hall-Element with Diff.Amp;Vs 5.0V;Io 12mAΔ;Sens. 150mA/T;Mag.Induction 100mTΔ.
71#	TCA580	59	27	Z328	MP337e	Gyrator-Switch for Reel Replacement in Telephone Low-pass filter;Vf 25mVΔ;If 9.0uAΔ.
72▼#	TCA860	59	15	Z344	MP120	1-Coil driver Ckt for battery-powered table clocks;1.5 volts.
73	TIXL74	59	46	Z145	MP224	Silicon Avalanche Photodetector Module; VAA 9.5Vmax; VDD 200V.
74	TIXL75	59	46	Z146	MP224	Germanium Avalanche Photodetector Module; VAA 9.5Vmax; VDD 100V.
75	TIXL76	59	46	Z146	MP224	Germanium Avalanche Photodetector Module; VAA 9.5Vmax; VDD 160V.
76	uA720DC	59	48	Z318	TO116	AM Radio System;Pd 200mWt;Osc.Current 8.0mAΔ;Osc.Out.Volt 1.2Vrmst.
77	uA720PC	59	48	Z318	MP252f	AM Radio System;Pd 200mWt;Osc.Current 8.0mAΔ;Osc.Out.Volt 1.2Vrmst.
78	uA727HC§	59	28	B011	TO100	Temperature-Controlled Differential Preamp;Heater IC 15mAΔ.
79	uA727HM§	59	5C	B011	TO100	Temperature-Controlled Differential Preamp;Heater IC 15mAΔ.
80#	UAA110	59	15		TO116	Control Ckt for Electronic Controlled Camera w/shutter-time cont.,choice of aperture.
81	ULN2300M	59	47	Z044a	MP48	Amplifier SCR Firing Ckt;AV 30dB*;VT 12mVrmst;VF 1.5VΔ;Zin 60kΩ*.
82	ULN2301M	59	07	Z044	MP48	Amplifier detector;Gv 30db*;Is 10mA;freq 75k to 150kHz;CMRR 80dbt.
83	ULN3000M	59	07	Z218	MP48	HALL SWITCH;VCC 5VDC; MAGNETIC FLUX DENSITY OPERATE POINT 750B*;O STATE 0.4VDC AT Io 20mA.
84	ULN3000S	59	07	Z218a	MP284	HALL SWITCH;VCC 5VDC; MAGNETIC FLUX DENSITY OPERATE POINT 750B*;O STATE 0.4VDC AT Io 20mA.
85	ULN3004M	59	07	Z219	MP48	Hall Switch;Open Collector Output;VCC 5VDC;Operate 1000BΔ;Digital Output.
86	ULN3004S	59	07	Z219a	MP284	Hall Switch;Open Collector Output;VCC 5VDC;Operate 1000BΔ;Digital Output.
87	ULN3100M	59	07	Z220	MP48	Hall Element,Calibrated;Vref 7VΔ.
88	ULN3100R	59	07	Z220	MP283	Hall Element,Calibrated;Vref 7VΔ.
89	ULN3100S	59	07	Z220	MP284	Hall Element,Calibrated;Vref 7VΔ.
90	CA3019	60	5C	Z041	CN17f	6 Diodes;Pd 120mWΔ;Vs 12V;VF 780mVΔ;Ir 10uAΔ;Cd 1.8pf;V(BR) 6.0V.
91	CA3019H	60	5C	Z041	FC16c	6 Dio;Pd 120mWΔ;VS 12V;VF 7.3V;IR 10uA;Cd 1.8pF;V(BR)R 6.0V.
92	CA3039H	60	5C	Z013	FC16c	6 Dio;PLV 5.0VΔ;IF 25mAΔ;VF .90VΔ;IR .10uAΔ;Pd 180mWt.
93	CA3039L	60	5C	Z013	FC18	6 Dio;PLV 5.0VΔ;IF 25mAΔ;VF .90VΔ;IR .10uAΔ;Pd 180mWt.
94▼	IPL64X64	60				4096 diodes arranged in a square matrix.
95▼	IPL7050	60			MP372	Self Scanned Photodiode Array.
96▼	IPL7064	60			MP372a	Self Scanned Photodiode Array.
97▼	IPL7100	60			MP372b	Self Scanned Photodiode Array.
98▼	IPL7128	60			MP372c	Self Scanned Photodiode Array.
99▼	IPL7256	60			MP373	Self Scanned Photodiode Array.
100	LM3019H	60	07	Z041	CN10e	6 Diodes;Pd 120mWΔ;Vs 12V;VF 7.3V;Ir 10uA;Cap. 1.8pf;V(BR)R 6.0V.
101	LM3039H	60	07	Z013	CN10e	6 Diodes;Pd 100mWΔ;PIV 5.0VΔ;IF 25mA;VF 900mVΔ;Ir 10uAΔ;trr 10nst.
102	MS214	60	28	Z105	MP212	Matched Quad;BVR 60V* at 100uA;IR 25nAΔ at 50V at 25°C;IF 10mA* at 1.0V.
103	TAA320	61	C		TO18	Bi-Fet Audio Amp;Pt-200mW;Id-25mA;Vds-20V;VGSO-20V;yfs-40mmho;Cis-80pf.
104	CA3058	62	5C	Z054	Δ001AD	0 Volt Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 20uA.
105	CA3059	62	48	Z054	Δ001AB	0 Volt. Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA max.
106	CA3059H	62	48	Z054	FC16n	0 Volt;Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA max.
107	CA3079	62	48	Z054a	Δ001AB	0 Volt Switch for 50 to 400Hz Thyristor Control;IGT 105mA;Io Leakage 10uA.
108	CA3099E	62	5C	Z282	Δ001AB	Programmable Comparator;Pd 750mWΔ;Vs 16V;Vref 6.0V;Outp Sat Volt 1.2VΔ;tr500ns;tf 50ns.
109	MFC8070	62	17	Z183	MP259	Zero Voltage Switch;Pd 1.0W;VSI 11Vdc max;IOL 100uAmax;Ic 15uAmax.
110#	SL440	62		Z253	MP319	Power Control Ckt;Firing Pulse Width 50us;Pulse I 60mA min;Static Gain of Servo Amp 75.

11. MISCELLANEOUS

LINE No.	2 TYPE No.	1 USE	TC EO MD PE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1#	TCA280	62	28	Z331	MP192a	Triggering Stage for controlling Thyristors and Triacs;Vs 12V;Ri 20Ω*;Io 6.0mA.
2#	UAA145	62	27			Switch for Phase Control;Vs 18V;Pt 550mW;tr 500nsΔ;Outp Saturation Volt 1.0VΔ.
3	DRAM6.8A10	63	6H	Z025	TO12	Vref 6.8±10%;TC 1.0m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
4	DRAM6.8A100	63	6H	Z025	TO12	Vref 6.8±5%;TC 10m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
5	DRAM6.8A25	63	6H	Z025	TO12	Vref 6.8±10%;TC 2.5m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
6	DRAM6.8A50	63	6H	Z025	TO12	Vref 6.8±10%;TC 5.0m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
7	DRAM6.8B10	63	6H	Z025	TO12	Vref 6.8±5%;TC 1.0m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
8	DRAM6.8B100	63	6H	Z025	TO12	Vref 6.8±5%;TC 10m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
9	DRAM6.8B25	63	6H	Z025	TO12	Vref 6.8±5%;TC 2.5m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
10	DRAM6.8B50	63	6H	Z025	TO12	Vref 6.8±5%;TC 5.0m%/°C;Iz 20mA max;Pd 300mW;hFE 150 min;VCE 50V.
11	DRVL6.4B10P	63	5F	Z083	MP175	Vref 6.4V†;Vin 40VΔ;Zz 100Ω*;TC 1.0m%/°CΔ;Pd 48mWΔ.
12	DRVL6.4B100P	63	5F	Z083	MP175	Vref 6.4V†;Vin 40VΔ;Zz 100Ω*;Tc 10m%/°CΔ;Pd 48mWΔ.
13	DRVL6.4B25P	63	5F	Z083	MP175	Vref 6.4V†;Vin 40VΔ;Zz 100Ω*;Tc 2.5m%/°CΔ;Pd 48mWΔ.
14	DRVL6.4B50P	63	5F	Z083	MP175	Vref 6.4V†;Vin 40VΔ;Zz 100Ω*;Tc 5.0m%/°CΔ;Pd 48mWΔ.
15	DRVM6.4B10N	63	5F	Z084	CN38	Vref 6.4V†;Vin 40VΔ;Zz 100ΩΔ;Tc 1.0m%/°CΔ;Pd 48mWΔ.
16	DRVM6.4B10P	63	5F	Z083	CN38	Vref 6.4V†;Vin 40VΔ;Zz 100ΩΔ;Tc 1.0m%/°CΔ;Pd 48mWΔ.
17	DRVM6.4B100N	63	5F	Z084	CN38	Vref 6.4V†;Vin 40VΔ;Zz100ΩΔ;Tc 10m%/°CΔ;Pd 48mWΔ.
18	DRVM6.4B100P	63	5F	Z083	CN38	Vref 6.4V†;Vin 40VΔ; Zz 100Ω; Tc 10m%°CΔ; Pd 48mWΔ.
19	DRVM6.4B25N	63	5F	Z084	CN38	Vref 6.4V†; Vin 40VΔ;Zz100ΩΔ;Tc 2.5m%/°CΔ;Pd 48mWΔ.
20	DRVM6.4B25P	63	5F	Z083	CN38	Vref 6.4V†;Vin 40VΔ;Zz 100ΩΔ;Tc 2.5m%/°CΔ;Pd 48mWΔ.
21	DRVM6.4B50N	63	5F	Z084	CN38	Vref 6.4V†; Vin 40VΔ;Zz100ΩΔ;Tc 5.0m%/°CΔ;Pd 48mWΔ.
22	DRVM6.4B50P	63	5F	Z083	CN38	Vref 6.4V†;Vin 40VΔ;Zz 100ΩΔ;Tc 5.0m%/°CΔ;Pd 48mWΔ.
23▼	MCLTC6010	63	6H	Z350	CN54	Temp Compensated;Pd 180mW;VREF 6.72VΔ;Vin 75VΔ;Iin 4.8mAΔ;Ri 200kΩ;ΔVREF 10mV.
24▼	MCLTC6025	63	6H	Z350	CN54	Temp Compensated;Pd 180mW;VREF 6.72VΔ;Vin 75VΔ;Iin 4.8mAΔ;Ri 200kΩ;ΔVREF 25mV.
25▼	MCLTC6050	63	6H	Z350	CN54	Temp Compensated;Pd 180mW;VREF 6.72VΔ;Vin 75VΔ;Iin 4.8mAΔ;Ri 200kΩ;ΔVREF 50mV.
26▼	MCLTC6100	63	6H	Z350	CN54	Temp Compensated;Pd 180mW;VREF 6.72VΔ;Vin 75VΔ;Iin 4.8mAΔ;Ri 200kΩ;ΔVREF 100mV.
27	PVS10B§	63	3C		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
28	PVS10BA§	63	58		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
29	PVS10C§	63	3C		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
30	PVS10CA§	63	58		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
31	PVS10G§	63	3C		MP239	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
32	PVS10GA§	63	58		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
33	PVSN10B§	63	3C		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
34	PVSN10C§	63	3C		MP239a	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
35	PVSN10G§	63	3C		MP239	Voltage Reference Standard;Noise .0001% of output;Load Capability 0-10mA.
36#	TAA940A	63	2F		CN25a	Reference Diode; Stabilized Volt 31V; Tc 10u V/°C; Diff. Res 10Ω.
37#	TAA940B	63	2F		CN25a	Reference Diode; Stabilized Volt 33V; Tc 10 uV/°C ; Diff Res 10Ω.
38#	TAA940C	63	2F		CN25a	Reference Diode;Stabilized Volt 35V;TC 10u °C;Diff Res 10Ω
39#	ZTK6.8	64	0F		DO35	Temp.compensated Volt.Stab.;Vz 6.5-7.2VΔ;Iz 90mA at TC 45°C;Rz 10Ω at 5.0mA.
40#	ZTK9	64	0F		DO35	Temp.Compensated Volt.Stab;Vz 8-10VΔ;Iz 63mA at Tc 45°C;Rz 10Ω at 5.0mA.
41#	ZTK11	64	0F		DO35	Temp.Compensated Volt Stab;Vz 10-12VΔ;Iz 53mA at Tc 45°C;Rz 10Ω at 5.0mA.
42#	ZTK18	64	0F		DO35	Temp.Compensated Volt.Stab;Vz 16-20VΔ;Iz 32mA at Tc 45°C;Rz 10Ω at 5.0mA.
43#	ZTK22	64	0F		DO35	Temp.Compensated Volt.Stab;Vz 20-24VΔ;Iz 27mA at Tc 45°C;Rz 10Ω at 5.0mA.
44#	ZTK27	64	0F		DO35	Temp.Compensated Volt.Stab;Vz 24-30VΔ;Iz 22mA at Tc 45°C;Rz 10Ω at 5.0mA.
45#	ZTK33	64	0F		DO35	Temp.Compensated Volt.Stab;Vz 30-36VΔ;Iz 19mA at Tc 45°C;Rz 10Ω at 5.0mA.
46#	ZTK33DPD	64	-F		DO35	Temp-compensated Volt.stabilizer;Vz 30 to 36V;Iz 10mA at TA 45°C;Rz 13Ω at 5mA.
47#	ZTW6.8	64	-F		TO18	Temp-compensated Volt.stabilizer;Vz 6.5 to 7.1V;Rz 500Ω at .1mA.
48	9004	65	57			ΔVS 15V;Cs 7.0mA;ΔVO 10V;SR 100mV/us.
49	A740	66	27	Z272	MP206b	Pin Cushion Correction Module;VS ±15V;3dB BW 10MHz min Horiz/Vert Correction.
50#	AN202	66	20		TO116	TV Deflection signal circuit;Pt 500mW.
51#	AN205	66	26		TO116	TV Video processing circuit;Vs 12V;Pt 550mW.
52#	AN209	66	28		TO116	TV tuning indicator on screen;Pt 250mW.
53#	AN221	66	26	Z248	TO116	Automatic fine tuning control circuit for TV(Pt 445mW).
54#	AN222	66	27	Z210	TO116	Automatic Fine Tuning Circuit for TV (Pt 700mW).
55#	AN228	66	27		MP104	TV Video Processing Circuit;Vs 12V;Is 22mA;BW 4.5MHz*;Vi 1.8Vpp.
56#	AN229	66	27		MP104	TV Video Processing Circuit;Vs 12V;Is 22mA;BW 4.5MHz*;Vi 1.0Vpp.
57#	AN230	66	27		MP104	TV Video Processing Circuit;Vs 12V;Is 22mA;BW 4.5MHz*;Vi 1.8Vpp.
58#	AN231	66	27		MP104	TV Video Processing Circuit;Vs 12V;Is 22mA;BW 4.5MHz*;Vi 1.8Vpp.
59#	AN232	66			MP104	TV Automatic Frequency Control,Horizontal Oscillator,Frequency Divider,Interlace Ckts.
60#	AN233	66	27	Z305		TV Deflection Combination.
61#	AN240	66	27	Z064	TO116	Sound Channel Circuit for TV (Pt 445mW).
62#	AN249	66	26		MP178	TV Video Processing Circuit;Vs 12V;Is 32mA;Sync.Separator;DC Contrast Control;ABL;ARC.
63#	AN328	66	26		MP178	Video processing circuit for TV (Pt 490mW).
64#	AN331	66	26		MP178	TV Video Processing Circuit;Vs 12V;Is 22mA;BW 4.5MHz;Vi 1.8Vpp.
65#	AN332	66	27		MP178	Deflection Circuit for TV (Pt 490mW).
66#	AN333	66	27		MP178	Deflection Circuit for TV (Pt 490mW).
67#	AN334	66	26		MP178	TV Automatic Frequency Control;Horizontal Oscillator;Frequency Divider.
68	CA3041§	66	08	C024	MP50	Wide-band AMP/FM Detector/AF Preamp/Driver for TV audio system to 20MHz.
69	CA3042§	66	08	C025	MP50	Wide-band AMP/FM Detector/AF Preamp/Driver for TV audio system to 20MHz.
70	CA3064	66	48	Z055	CN19	TV Auto. Fine Tuning Ckt w/Wideband and DC Amps;Diff.Detector and Zener Diode Volt.Reg.
71	CA3064T	66	48	Z055	CN19	TV Auto Fine Tuning ckt w/Wideband and DC Amps;Diff.Detector and Zener Diode Volt Reg.
72	CA3068	66	48	Z120	MP215	TV Video IF System;ΔVs 20V;Pd 600mW.
73	HEPC6060P-RT	66	07	Z192	TO116	TV Sound Ckt;VS 12Vdc;VL 160nVrmsΔ;THD 1.0%†;VOΔ 3.5Vrms†;Rin 9.0kΩ†;Cin 6pff.
74	HEPC6062P-RT	66	07	Z080	TO116	TV Sound IF or FM IF Amp w/Quadrature Detector.
75	ITT3064	66	48	Z055	TO96	TV Auto.Fine tuning ckt w/Wideband and DC Amps;Diff.Detector and Zener Dis. V.Reg.
76	LM1351N01	66	07	Z033a	MP336	TV Sound Ckt;FM DETECTOR,LIMITER and AUDIO AMP;VS 16V;Pd 850mW;Gv Amp 65dB.
77	LM1351N	66	07	Z033a	MP39n	TV Sound Ckt;FM DETECTOR,LIMITER and AUDIO AMP;VS 16V;Pd 850mW;Gv Amp 65dB.
78	LM1805	66	07			Complete 2 Watt,TV sound system;INC IF AMP and DETECTOR.
79	LM1845N01	66	07	Z291	MP214a	TV Signal Processing System.
80	LM1845N	66	07	Z291	MP337c	TV Signal Processing System.
81	LM3064H	66	48	Z290	CN8	TV Automatic Fine Tuning Ckt;Vcc 30V;Pt 150mWΔ;ID 9.5mAΔ.
82	LM3064N	66	48	Z290		TV Automatic Fine Tuning Ckt;Vcc 30V;Pt 150mWΔ;ID 9.5mAΔ.
83#	M5134P§	66	28	E034	MP55	High Frequency Wide-Band Amp/Phase Detector/for TV AFC System.
84#	M5135P	66	27	Z055	MP14g	TV Auto.Fine tuning ckt w/Wideband and DC Amps;Diff.Detector and Zener Dio. V. Reg.
85#	M5143P	66	28	Z142	MP14g	IF Amp-Limiter/FM Detector/Attenuator/Audio Driver/for TV Sys.;Pd 370mW;Ri 70k;Ro 270.
86#	M5183P	66	27	Z187	MP14j	TV Video IF Amp with AGC and Keyer Circuit;Vs 12V;Pd 325mW.
87#	M5188K	66	27	Z245	MP104	TV Horizontal AFC/Horizontal Osc./Vert. Syncro-Amplifier/Vert.Osc;Vs 12V;Is 45mA§.
88▼	MC1344P	66	07	Z352	MP307	TV Signal Processor;VS 18V;IS 22mA;Pd 625mW;Vi 10V;TC 1.0mV/°CΔ.
89	MC1351P	66	07	Z033	MP25a	TV Sound Circuit;Pt 625mW;THD 1.0%;IF Gain 65db; Rin 9.0kΩ.
90	MC1351PQ	66	07	Z033	MP160	TV Sound Circuit;Pt 625mW;THD 1.0%;IF Gain 65db; Rin 9.0kΩ.
91♦	MC1391P	66	07	Z353a	MP161	TV Horizontal Processor;Vo 40Vdc max;Io 30mAdc max;Pd 625mW max.
92▼	MC1394P	66	07	Z353	MP161	TV Horizontal Processor;Vo 40Vdc max;Io 30mAdc max;Pd 625mW max.
93#	SBA550B	66	07	Z230	MP217b	Ckt for signal processing in TV receivers;Vs 12V;Is 43mA max;Pd 400mW;BW 7.0MHz.
94	SK3022-RT	66	5C	E021	Δ006AF	7.5V,Sound IF-Amplifier Stages for TV Receivers.
95	SK3023-RT	66	5C	E021	Δ006AF	7.5V,Sound IF-Amplifier Stages for TV Receivers.
96	SK3101-RT	66	48	C024	Δ001AB	140V,Sound IF Amp.Limiter,FM Detection,AF Preamp and AF Driver Stages for TV Receivers.
97	SK3102-RT	66	48	C025	Δ001AB	140V,Sound IF Amp.Limiter,FM Detection,AF Preamp and AF Driver Stages for TV Receivers.
98#	TAA700	66	2C	Z126	MP330	TV Signal Processing Ckt;VS 12V;Is 43mAΔ;Pd 400mW;Freq 5.0MHz*;Ri 2.7kΩ.
99#	TAA700A	66	27	Z126	MP217	TV video processing circuit;Vs 16V;Pd 500mW;Ri 2.7kΩ.
100#	TBA311A12	66	27	Z127	MP217	TV Video Processing Circuits;Vs 16V;Pd 500mW Ri Zi7kΩ.
101#	TBA311A17	66	27	Z127	MP192	TV Video Processing Circuits;Vs 16V;Pd 500mW Ri Zi7kΩ.
102#	TBA365	66	48	Z055	CN19	TV Suto-Fine tuning ckt w/Wide band and DC Amps;Diff.Detector and Zener Dio. V.Reg.
103#	TBA631A51	66	17	Z159	MP247	TV Sound Section;Vs 18V;Pd 1.6W;Ro 100Ω;Total Harmonic Dist 1.8%.
104#	TBA890	66	28		MP252a	TV Signal Processing Circuit;Vs 12V;Gv 7.0dB;Pd 700mW;BW 5.0MHz*.
105#	TBA890Q	66	28		MP256	TV Signal Processing Circuit;Vs 12V;Gv 7.0dB;Pd 700mW;BW 5.0MHz*.
106#	TBA900	66	28	Z310	MP252a	TV Signal Processing Circuit;Vs 12V;Gv 7.0db;Pd 700mWΔ;BW 5.0M*.
107#	TBA900Q	66	28		MP256	TV Signal Processing Circuit;Vs 12V;Gv 7.0dB;Pd 700mW;BW 5.0MHz*.
108#	TBA920	66	26	Z329	MP192a	Line Oscillator Combination;Vs 12V;Pd 600mWΔ;Video Inp Sign 3.0V;Ri 400Ω.
109♦#	TBA920Q	66	26	Z329	MP256	Line Oscillator Combination;VS 12V;Is 36mA;Video Inp Sign 3.0V;Ri 400Ω.
110#	TBA920S	66	26	Z329	MP192a	Line Oscillator Combination;Vs 12V;Pd 600mWΔ;Video Inp Sign 3.0V;Ri 400Ω.

LINE No.	2 TYPE No.	1 USE	T C E O M D P E -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1#	TBA970	66	24	Z330	MP192a	Video Amp.for Horizontal Synchronising Ckt;Vs 15V;Bw 6.0MHz;Pd 750mW.
2#	TCA270	66	25	Z269	MP192a	TV Signal Processing Ckt;VS 12V;Freq 39.5MHz;Sens 70mV;Video Outp. 3.0V.
3#	TCA270Q	66	25	Z269	MP256	TV Signal Processing Ckt;VS 12V;Freq 39.5MHz;Sens 70mV;Video Outp. 3.0V.
4#	TDA440	66	27	Z267	MP252	ZF Picture Amp.for Color and B/WTV;Pt 700mW;Vs 15V;Freq. 8.0-10MHz;Ri 1.4kΩ.
5▼	ULN2125A	66	27	Z355	MP104b	Video Signal Processor;VCC 24V;Pd 600mWΔ;Video Pre-Amp,AGC,SYNC,Noise Detector.
6	ULN2165A	66	48	Z157	MP14w	Sound Channel for T.V.;Pd 850mW;Vi ±3.0V;Is 50mA;Vo 7.0Vpp.
7	ULN2165N	66	48	Z157	MP50b	Sound Channel for T.V.;Pd 850mW;Vi 3.0V;Is 50mA;Vo 7.0Vpp.
8#	AN225	67	27		TO116	Color TV Demodulator;Vs 24V;Is 18mA;Vo 14V;Ref.input res 2.0kΩ.
9#	AN227	67	27		TO116	Color TV Demodulator;Vs 24V;Is 18mA;Vo 14V;Ref.input res 2.0kΩ.
10#	AN234	67	27		MP104	Color TV Chroma IF Amp;Vs 12V;Is 27mA;Gv 40db;Input res 2.1kΩ.
11#	AN235	67	27		MP104	Color TV Chroma IF Amp;Vs 12V;Is 27mA;Gv 34db;Input Res 2.0kΩ.
12#	AN236	67	27		TO116	Color TV Subcarrier Regenerator;Vs 12V;Is 27mA;ACC Sensitivity 230mV.
13#	AN237	67	27		TO116	Color TV Subcarrier Regenerator;Vs 12V;Is 27mA;ACC Sensitivity minus 230mV.
14#	AN242	67	27		MP178	Color Demodulator Circuit for Color TV (Pt 490mW).
15#	AN288	67	26		MP178	TV Color Processing Circuit;Vs 12V;Is 28mA;ACC;DC Color and Tint Control;Self Osc.
16#	AN289	67	26		MP178	TV Color Processing Ckt;Vs 12V;Is 28mA;ACC;DC Color and Tint Cont;Crystal ringing Osc.
17#	AN342	67	27		MP178	Color Demodulator Circuit for Color TV (Pt 490mW).
18#	AN343	67	26		MP178	Color Demodulator Circuit for Color TV;Vs 12V;Output Ratio R:G:B - 100:30:106.
19▼	CA1398E	67	48		MP250	Chroma Processor;IS 35mA;Chroma Gain 7(max) to 310(min)mVpp;ACC action 7dB typ.
20	CA3066	67	48	Z118	MP214	TV Chroma System,Chroma Signal Processor;ΔVs 11V;Pd 600mW;Vi 11V.
21	CA3066D	67	48	Z118	MP178b	TV Chroma System;Chroma Signal Processor;ΔVs 11.2V;Pd 730mW.
22	CA3066E	67	48	Z118	MP177a	TV Chroma System;Chroma Signal Processor;ΔVs 11.2V;Pd 730mW.
23	CA3067	67	48	Z119	MP214	TV Chroma System,Chroma Demodulator;ΔVs 11V;Pd 600mW;Vi 3.5V.
24	CA3067D	67	48	Z119	MP178b	TV Chroma Demodulator;ΔVS 11.2V;Pd 730mW.
25	CA3067E	67	48	Z119	MP177a	TV Chroma Demodulator;ΔVS 11.2V;Pd 730mW.
26	CA3070	67	48	Z121	Δ001AC	TV Chroma System;Chroma Signal Processor;ΔVs 24V;Pd 530mW.
27	CA3071	67	48	Z123	Δ001AB	TV Chroma System,Chroma Amp;ΔVs 24V;Pd 530mW.
28	CA3072	67	48	Z125	Δ001AB	TV Chroma System,Chroma Demodulator;ΔVs 24V;Pd 530mW;Vi 5.0V.
29▼	CA3120E	67	48		MP252	Signal Processor(JUNGLE Ckt);VS 30V;IS 20-40mA;Vth(AGC) 4.5-5.5V.
30▼	CA3121E	67	48		MP252	Chroma Amp/Demodulator;VS 30V;IS 44mA max;Sensitivity 15mVrms max.
31▼	CA3125E	67	48		MP250	Chroma Demodulator;VS 20V;IS 9.6mA.
32▼	CA3126Q	67	48		MP214	Chroma Processor;VS 11.9V;IS 25mA;Pd 750mW.
33	HEPC6057P-RT	67	07	Z190	TO116	Dual Doubly Balanced Chroma Demodulator;Pt 625mW;Vo 16VdcΔ;Iin 6.0mt.
34	ITT3066	67	48	Z118	MP214	TV Chroma System,Chroma Signal Processor;ΔVs 11V;Pd 600mW;Vi 11V.
35	ITT3067	67	48	Z119	MP214	TV Chroma System;Chroma Demodulator;ΔVs 11V;Pd 600mW;Vi 3.5V.
36	LM746H	67	07	Z062	CN10e	TV Chroma Demodulator;Zin 1.7kΩt;Vs 24V;Vo 14.5Vt;Pd 340mW.
37	LM746N01	67	07	Z062	MP337c	Color Television Chroma Demodulator;VS 24V;RL 3.3kΩ;Pd 340mWt.
38	LM746N	67	07	Z062	MP39n	Color Television Chroma Demodulator;VS 24V;RL 3.3kΩ;Pd 340mWt.
39	LM3066N01	67	48	Z118	MP214a	TV Chroma System Signal Processor;VS 11.2V;Quiescent Supply 33mA.
40	LM3066N	67	48	Z118	MP337c	TV Chroma System Signal Processor;VS 11.2V;Quiescent Supply 33mA.
41	LM3067N01	67	48	Z119	MP214a	TV Chroma System Demodulator;VS 11.2V;Total Supply 33mA max.
42	LM3067N	67	48	Z119	MP337c	TV Chroma System Demodulator;VS 11.2V;Total Supply 33mA max.
43	LM3070N01	67	48	Z121	MP214a	TV Chroma System Subcarrier Regenerator;VS 24V;Pd 550mW;IS 25.5mA.
44	LM3070N	67	48	Z121	MP337c	TV Chroma System Subcarrier Regenerator;VS 24V;Pd 550mW;IS 25.5mA.
45	LM3071N01	67	48	Z123	MP336	TV Chroma System IF Amp;VS 24V;Pd 550mW;IS 31mA.
46	LM3071N	67	48	Z123	MP39n	TV Chroma System IF Amp;VS 24V;Pd 550mW;IS 31mA.
47	LM3072N	67	48	Z125	MP39	TV Chroma System;Chroma Demodulator;ΔVs 24V;Pd 530mW;Vi 5.0V.
48#	M5108P	67	27	Z141	MP55	Chroma Demodulator for NTSC color TV;Vs 24V§.
49#	M5180P	67	27	Z185	MP266	Chroma Band-Pass Amp/Acc Amp;Vs 12V;Pd 380mW.
50#	M5182P	67	27	Z186	MP266	Chroma Detector/APC/Oscillator;Vs 12V;Pd 80mW.
51#	M5190P	67	27	Z182	MP14g	TV Color Processing Circuit;Pt 700mW;Vs 390Ω 20V;Is 27mA.
52#	M5191P	67	27	Z246	MP14g	Chroma Demodulator for NTSC Color TV;Vs 24V§;Is 22mA.
53	MC1324P	67	07	Z322	TO116	Dual Doubly Bal.Chroma Demod.w/RGB Matrix and Chroma Driver;Vs 30Vds;Min RL2.2kΩ;Pd 625mW
54	MC1326P	67	07	Z077b	MP25c	Dual Doubly Balanced Chroma Demodulator with RGB Output Matrix;300mVp-p input sen.
55	MC1326PQ	67	07	Z077b	MP160	Dual Doubly Balanced Chroma Demodulator with RGB Output Matrix;300mVp-p input sen.
56▼	MC1327P	67	27	Z351	MP307	Dual Doubly Balanced Chroma Demodulator;VS 24V;Pd 625mW;Vi 5.0V pk;Vo 14.5V.
57▼	MC1327PQ	67	27	Z351	MP126	Dual Doubly Balanced Chroma Demodulator;VS 24V;Pd 625mW;Vi 5.0V pk;Vo 14.5V.
58	MC1328G	67	07	Z077a	TO100	Dual Doubly Balanced Chroma Demod;5.0V p-p out for 300mVp-p in;Vos out 600mV max.
59	MC1328P	67	07	Z077a	MP25c	Dual Doubly Balanced Chroma Demod;5.0V p-p out for 300mV p-p in;Vos out 600mV max.
60	MC1328PQ	67	07	Z077a	MP160	Dual Doubly Balanced Chroma Demod;5.0V p-p out for 300mV p-p in;Vos out 600mV max.
61	MC1329P	67	07	Z329	TO116	Monolithic Dual Doubly Bal.Chroma;Vs 30Vds max;Pd 625mW max;Min RL 2.2kΩ.
62▼	MC1331P	67	07		MP307	Low Level Video Detector;VS 12V;IS 30mA;Pd 750mW;Ri 2.0kΩ;Ro 50Ω;ΔVo 6.0V.
63	MC1370P	67	07	Z237	MP308	T.V.Chroma Subcarrier Regenerator;Pt 625mW;Vs 24V;Zin 2.1kΩt.
64	MC1371P	67	07	Z238	MP307	T.V. Chroma IF Amp;Pt 625mW;Vs 24V;Zin 2.0kΩt.
65	MC1398P	67	27	Z182	TO116	TV Color Processing Circuit;Pt 625mW;VI 11.5V max-Power Supply I 35mA.
66	SK3073-RT	67	48	Z118	Δ001AC	12V,Chroma Signal Processor Stages for Color TV Receivers.
67	SK3074-RT	67	48	Z119	Δ001AC	12V,Chroma Demodulator Stages for Color TV Receivers.
68	SK3075-RT	67	48	Z121	Δ001AC	24V,Chroma Signal Processor Stages for Color TV Receivers.
69	SK3076-RT	67	48	Z123	Δ001AB	24V,Chroma Amplifier Stages for Color TV Receivers.
70	SK3077-RT	67	48	Z125	Δ001AB	24V,Chroma Demodulator Stages for Color TV Receivers.
71#	SL901B	67		Z257	MP280	Color Processing Ckt;Vs 18V;Is 44mAΔ;Ro 50Ω;Shunt load cap. 30pf.
72#	SL917B	67		Z258	MP280	Color Processing Ckt;Vs 18V;Chroma Inp.Signal 600mVp/p;Chroma Inp.Impedence 9.0kΩ*.
73#	TAA630	67	26	Z179	MP252a	Dual Synchronous Color TV Demodulator;Vs 12V;Pd 550mWΔ;Input Imp 1.0kΩ.
74#	TAA630S	67	2C	Z195	MP252a	Dual Synchronous Color TV Demodulator;Vs 12V;Pd 550mWΔ;Input Imp 1.0kΩ.
75#	TAA630T	67	2C	Z195	MP256	Dual Synchronous Color TV Demodulator;Vs 12V;Pd 550mWΔ;Input Imp 1.0kΩ.
76#	TBA500	67	26	Z116	MP192a	Colour TV luminance amp;Vs 12V;Pd 500mWΔ;Input res. 100kΩ.
77#	TBA500N	67	26	Z307	MP337d	Luminance Combination;Vs 13.2VΔ;Pt 600mWΔ;Zin 50kΩ.
78#	TBA500NQ	67	26	Z307a	MP256	Luminance Combination;Vs 13.2VΔ;Pt 600mWΔ;Zin 50kΩ.
79#	TBA500P	67	26	Z307	MP337d	Luminance Combination;Vs 13.2VΔ;Pt 600mWΔ;Zin 50kΩ.
80#	TBA500PQ	67	26	Z307a	MP256	Luminance Combination;Vs 13.2VΔ;Pt 600mWΔ;Zin 50kΩ.
81#	TBA500Q	67	26	Z116	MP256	Colour Television Processing Circuit (PAL)-Luminance Combination;ΔVs 12Vt.
82#	TBA510	67	26	Z106	MP192a	Colour TV Chrominance amplifier;VS 12V;Pd 500mWΔ;Input Res. 100kΩ.
83#	TBA510Q	67	26	Z106	MP256	Colour Television Processing Circuit-Chrominance Combination;ΔVs 12Vt.
84#	TBA520	67	26	Z107	MP192a	Colour TV Demodulator;VS 13.2V;Pd 550mWΔ;Input Res. 800Ω*.
85#	TBA520Q	67	26	Z107	MP256	Colour Television Processing Circuit-Colour Demodulator;ΔVs 12Vt.
86#	TBA530	67	26	Z108	MP192a	Colour TV R.G.B. matrix pre-amp;VS 12V;Pd 400mWΔ;IS 50mAΔ.
87#	TBA530Q	67	26	Z108	MP256	Colour Television Processing Circuit-RGB Matrise Preamplifier;ΔVs 12Vt.
88#	TBA540	67	26	Z109	MP192a	Reference Oscillator Ckt;VS 12V;Is 38mA;Pd 780mW;Ri 3.5kΩ;Gv 4.7.
89#	TBA540Q	67	26	Z109	MP256	Reference Oscillator Ckt;VS 12V;Is 38mA;Pd 780mW;Ri 3.5kΩ;Gv 4.7.
90#	TBA550%	67	2C	Z170	MP256	Television Signal Processing Ckt;ΔVs 12Vt.
91#	TBA550Q	67	26	Z170	MP256	Colour Television Processing Circuit-Television Signal Processing Circuit;ΔVs 12Vt.
92#	TBA550Q%	67	2C	Z170	MP256	Television Signal Processing Ckt;ΔVs 12Vt.
93#	TBA560	67	06	Z110	MP192a	Luminance and Chrominance Control Ckt;VS 12V;Is 24mA;Pd 330mW.
94#	TBA560B	67	06	Z110	MP337d	Luminance and Chrominance Control Combination;ΔVs 12Vt.
95#	TBA560BQ	67	06	Z110	MP256	Luminance and Chrominance Control Combination;ΔVs 12Vt.
96#	TBA560C	67	06	Z110	MP337d	Luminance and Chrominance Control Combination;ΔVs 12Vt.
97#	TBA560CQ	67	06	Z110	MP256	Luminance and Chrominance Control Combination;ΔVs 12Vt.
98#	TBA560Q	67	06	Z110	MP256	Luminance and Chrominance Control Ckt;VS 12V;Is 24mA;Pd 330mW.
99#	TBA651	67	28	Z160	MP217	RF Amplifier/Mixer/Oscillator/IF Amplifier/AGC Control for AM Radio;VCC 18V;Vo 500mV.
100#	TBA680	67	26		MP192a	Color TV RGB matrix and driver stage;VS 12V;Pd 600mW;Idrive 40mA max.
101#	TBA990	67	26	Z268	MP192a	R.G.B.Synchronous Demodulator for color TV;VS 12V;IS 17mA;Pd 200mW.
102#	TBA990Q	67	26	Z268	MP256	R.G.B.Synchronous Demodulator for color TV;VS 12V;IS 17mA;Pd 200mW.
103#	TCA360	67	$6	Z256	TO77	Delay Line, Transfer Switch for French Secam TV System.
104#	TCA640	67	26	Z333	MP192a	Chroma Amplifier;Vs 12V;Is 47mA;Inp.Sign.40mV;Dist.40dbΔ;Vo 550mV.
105#	TCA650	67	26	Z334	MP192a	Demodulator;Vs 12V;Is 40mA;Ri 1.8kΩ;Ro 100ΩΔ;Vi 55mV;Vo 2.0V.
106#	TCA660	67	26	Z335	MP192a	Luminance and Chrominance Control Ckt;Vs 12V;Is 44mA;Ri 25Ω.
107▼#	TCA800	67	25		MP252a	Color Demodulator w/feed-back clamps;VS 12V.
108	uA781DC	67	5C	Z206	TO116	Gain Controlled IF Amp;Pd 670mW;IS 24mAt.
109	uA781PC	67	5C	Z206	MP252f	Gain Controlled IF Amp;Pd 670mW;IS 24mAt.
110♦	ULN2114A	67	27	Z018a	MP14w	Chroma Demodulator;Vcc 28VΔ;Is 8.0mA at RL 8.0Ω;TC -5mV/°C.

LINE No.	2 TYPE No.	1 USE	TC EO MP DE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1♦	ULN2114K	67	27	Z018	TO100	Chroma Demodulator;Vcc 28VΔ;Is 8.0mA at RL 8.0Ω;TC -5mV/°C.
2♦	ULN2114N	67	27	Z018a	MP50b	Chroma Demodulator;Vcc 28VΔ;IS 8.0mA at RL 8.0Ω;TC -5mV/°C.
3♦	ULN2114W	67	27	Z018	CN41	Chroma Demodulatoo;Vcc 28VΔ;Is 8.0mA at RL 8.0Ω;TC -5mV/°C.
4	ULN2124A	67	49	Z154	MP104b	T.V.Chroma Subcarrier Regeneration System;Pd 530mW;Vs 24V;Vo 1.0Vpp.
5♦	ULN2127A	67	27	Z155	MP14w	Chroma Amplifier;Vs 24V;Pd 530mWΔ;IS 31mAΔ;Vo 2.0VrmsΔ.
6▼	ULN2224A	67	27	Z357	MP14w	Chroma Demodulator with Output Matrix;Vcc 24V;Pd 625mWΔ;Chroma Vi 5.0VpΔ.
7▼	ULN2228A	67	27	Z358	MP14w	Chroma Demodulator;Vcc 24V;Pd 625mWΔ;IS 25.5mAΔ;TC 3.0mV/°C.
8▼	ULN2298A	67	27	Z359	MP14w	Chroma Processor;IS 35mAΔ;Pd 625mWΔ;Volt 11.5VΔ;Hysteresis 3.0db.
9	365L	68	08		OCT	Magnetic Tap Playback Amp; PD250mw;ΔVS48V;Ro1.0k;Vo15V.
10	370	68	08		OCT	Disc Playback Amp-Equalizer;PD250m;ΔVS48V;Ro1.0k;Vo15V.
11	380	68	08		OCT	Magnetic Tape Playback Amp-Equalizer;PD250m;ΔVS48V;Ro1.0k;Vo15V.
12	MC1312P	68	07		TO116	Four Channel SQ Decoder.
13	MC1313P	68	48		TO116	Four Channel SQ Decoder.
14	MC1339P	68	48	Z236	TO116	Dual Low-Noise Stereo Preamplifier;Pt 625mW;Vs 12V;Zin 250kΩ†.
15	SK3071-RT	68	48	C047	Δ001AC	14V,Full Function Stereo Preamplifier Stages for Hi-Fi Equipment.
16	SK3072-RT	68	48	Z064	Δ001AB	140V,Sound IF Amplifier Stages for TV Receivers.
17#	SL622C	68	5C	Z254	CN27b	AF Amp,Vogad and Sidetone Amp;Vs 6.0V;Vogad Outp.Level 90mVrms;Sidetone Outp.level800mVpp.
18#	SL630C§	68	5A	C050	CN27b	Microphone/Headphone Amp;Io 110mA;Signal Freq 1.0kHz;Gain Control range 60-100db.
19#	TAA970	68	37	Z196	TO74	Microphone Amp;Is 100mA max;Gv 150;Output imp 60Ω;Pd 700mW.
20#	TBA490	68	28	Z223	MP252b	Stereo-Decoder-Switch;Vs 16V;Input Res 22kΩ;Pd 360mWΔ.
21#	TCA490A	68	07	Z316	MP39m	Dual Op-Amp and Stereo Pre-Amp;Vs 36VΔ;Ptot 400mWΔ;F 6dB;Vn(rms) 4uV.
22#	TCA490B	68	07	Z316	MP39m	Dual Op-Amp and Stereo Pre-Amp;Vs 36VΔ;Ptot 400mWΔ;F 3dB;Vn(rms) 2.5uV.
23#	TCA490C	68	07	Z316	MP39m	Dual Op-Amp and Stero Pre-Amp;Vs 36VΔ;Ptot 400mWΔ;F 1.5dB;Vn(rms) 1.25uV.
24▼#	TCA730	68	26		MP252a	Stereo Audio Volume and Balance Control Ckt;VS 15V;d(tot) 0.1%.
25▼#	TCA740	68			MP252a	Stereo Audio Tone Control Ckt;VS 15V;d(tot) 0.1%.
26	ULN2129A	68	48	Z156	MP14w	Sound Channel for F-M Receiver;Pd 760mW;Vs 12.5V;Is 10mA;Gv 21dB.
27	ULN2129N	68	48	Z156	MP50b	Sound Channel for F-M Receiver;Pd 760mW;Vs 12.5V;Is 10mA;Gv 21dB.
28	9005	69	58			Precision Limiter;ΔVS 15V;Cs 8.0mA;ΔVO 10V;Freq.Response DC to 5kHz.
29#	AN206	69	26		TO116	IF Amp-Limiter,FM radio detector,Audio pre-amplifier transistor;Pt 375mW.
30#	AN219	69	27	Z306		FM Tuner System;Pt 200mW;Vo(FM) 15mV†.
31#	AN260	69	27	Z297	TO116	AM/FM IF AM Mix. Osc. Tuning Meter Driver.
32#	AN277	69	27	Z298	MP178	AM/FM IF Amp AM RF Conv.
33	CA2111AE	69	5C	Z017	Δ001AB	FM IF Amp-Limiter,Quadrature Detector;Pd 600mW;DCVS 16VΔ;Amp Gv 60dB.
34	CA2111AQ	69	5C	Z017	MP50	FM IF Amp-Limiter,Quadrature Detector;Pd 600mW;DCVS 16VΔ;Amp Gv 60dB.
35	CA3043H§	69	5C	C026	FC16j	High Gain IF Amp/Limiter/FM Detector/AM Preamp/Driver for FM up to 20MHz.
36	CA3075	69	48	Z090	MP50	FM IF Amplifier-Limiter, Detector, Audio Preamp;Vs 12.5V;Pd 760mW;Gv 21db.
37	CA3075D	69	48	Z090	TO116	FM IF Amplifier-Limiter, Detector, Audio Preamp;VS 12V;Pd 670mW.
38	CA3075E	69	48	Z090	MP252f	FM IF Amplifier-Limiter, Detector, Audio Preamp;VS 12V;Pd 670mW.
39	CA3076§	69	5C	D031	Δ002AL	Wide-Band IF Amplifier-Limiter;Pd 500mW;Vs 15V;Vo 12mV;Noise Volt. 1.0mV.
40	CA3088E	69	48	Z165	Δ001AC	AM Receiver Subsystem,Amplifier Array;Pd 760mW;Vs 16V;THD 1.0%;Ri 3.5kΩ.
41	CA3089E	69	48	Z166	Δ001AC	FM IF System;Pd 600mW;Vs 16V;AM Rejection 55db;THD 1.0%Δ.
42▼	CA3123E	69	5C		MP250	AM Radio Rcvr Sys;VS 9V;IS 35mA;Sensitivity 5uV max.
43	HEPC6063P-RT	69	27	Z157	TO116	IF AMP,LIMITER,FM,DET,AUDIO DRIVER;Pd 625mW;Vs 24;DC Sup Cur 24mA max.
44	ITT3065	69	48	Z064	MP50	IF Amp-Limiter;FM Detector,Electronic Attenuator,Audio Driver;Ro 270Ω;Ri 70kΩ.
45	LM173H	69	5C		CN10e	AM/FM/SSB IF AMP and DETECTOR;Sens 10uV at 455kHz;BW 30MHz.
46	LM173N	69	5C		MP39	AM/FM/SSB IF AMP and DETECTOR;Sens 10uV at 455kHz;BW 30MHz.
47	LM174H	69	5C		CN10e	AM/FM/SSB IF VIDEO AMP and DETECTOR;Ps 20mA;AGC Range 70db.
48	LM174N	69	5C		MP39	AM/FM/SSB IF VIDEO AMP and DETECTOR;Ps 20mA;AGC Rnage 70db.
49	LM273H	69	2A	Z275	CN10e	AM/FM/SSB IF AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
50	LM274H	69	2A	Z275	CN10e	AM/FM/SSB IF VIDEO AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
51	LM373H	69	07	Z275	CN10e	AM/FM/SSB IF AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
52	LM373N	69	07	Z275	MP39	AM/FM/SSB IF AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
53	LM374H	69	07	Z275	CN10e	AM/FM/SSB IF VIDEO AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
54	LM374N	69	07	Z275	MP39	AM/FM/SSB IF VIDEO AMP/DETECTOR;Vs 18V;Sens 30uVrms;AGC Thresh 300uVrms.
55	LM3065N01	69	48	Z064	MP336	TV Sound System;IF AMP LIMITER;FM DETECTOR;ELECTRONIC ATTENUATOR;AUDIO DRIVER.
56	LM3065N	69	48	Z064	MP39n	TV Sound System;IF AMP LIMITER;FM DETECTOR;ELECTRONIC ATTENUATOR;AUDIO DRIVER.
57	LM3075NO1	69	48	Z090	MP336	FM DETECTOR/LIMITER and AUDIO AMP;VS 12.5V;Pd 850mW;IS 8.5mA*.
58	LM3075N	69	48	Z090	MP39n	FM DETECTOR/LIMITER and AUDIO AMP;VS 12.5V;Pd 850mW;IS 8.5mA*.
59	MC1307P	69	07	Z066	TO116	FM Multiplex Stereo Demodulator;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
60	MC1355P	69	07	Z079	MP25c	Limiting FM/IF Amplifier;ΔVS 15V;Pt 625mW;IO 5.0mA.
61	MC1355PQ	69	07	Z079	MP160	Limiting FM/IF Amplifier; ΔVS 15V; Pt 625mW; IO 5.0mA.
62	MC1357P	69	07	Z080	MP25c	IF Amplifier and Quadrature detector; PD 625mW; SupVolt 16V.
63	MC1357PQ	69	07	Z080	MP160	IF Amplifier and Quadrature detector; PD 625mW; Sup Volt 16V.
64	MC1358P	69	07	Z064	MP25c	IF Amplifier, Limiter, FM Detector;Audio Driver, Electronic Attenuator.
65	MC1358PQ	69	07	Z064	MP160	IF Amplifier, Limiter, FM Detector;Audio Driver, Electronic Attenuator.
66	MC1375P	69	48		TO116	FM IF Amp, Limiter, Detector and Audio Pre-Amp;Vs 16Vdc max;Pd 625mW max.
67	N5111A	69	08	Z017	MP153	FM detector/Limiter/IF GV 60dB;Freq. 5kHz-50MHz;ΔVs 12V;Pd 264mW.
68#	S041P	69	28	Z277	MP39m	FM-IF-Amp w/Demodulator;Vs 14V;Is 5.0mA;AFVo 200mV;V 40uV;Gv 63db.
69#	SAA570	69	17	Z229	CN27a	6 Stage Limiting I.F.Amp w/quadrature detector;Vs 20V max;Supply Cur. 19mA.
70#	SAA661BE	69	0A	Z250	MP319	Limiting IF Amp/FM Detector,Pd 600mW;Vs 12V;Is 20mA max;Dist.1%;Sens. 140uV.
71#	SAA661BQ	69	0A	Z250	MP226a	Limiting IF Amp/FM Detector;Pd 600mW;Vs 12V;Is 20mA max;Dist.1%;Sens. 140uV.
72#	SBA750AE	69	27	Z231	MP178c	5 Stage Limiting I.F.Amp/F.M.Detector;Vs 25V max;Supply Cur. 23mA.
73#	SBA750AQ	69	27	Z231	MP217b	5 Stage Limiting I.F.Amp/F.M.Detector;Vs 25V max;Supply Cur. 23mA.
74#	SBA750BE	69	27	Z231	MP178c	Limiting IF Amp/FM Detector;Vs 12V;Sens 100uA;Ri 60kΩ;BW 30MHz.
75#	SBA750BQ	69	27	Z231	MP217b	Limiting IF Amp/FM Detector;Vs 12V;Sens 100uA;Ri 60kΩ;BW 30MHz.
76#	SL437C	69		Z252	MP280	Limiting IF Amp/FM Detector for PNP;Vs 12V;Is 2.0mA;Sens 100uV;Ri 8.0kΩ;AMrej 55db.
77#	SL437D	69		Z252	MP280	Limiting IF Amp/FM Detector for NPN;Vs 12V;Is 10mA;Sens 100uV;Ri 8.0kΩ;AMrej 55db.
78#	SL623C	69	5C	Z260	CN27b	AM Detector,AGC Amp and SSB Demodulator;Vs 6.0V;SSB Audio Outp 30mVrms.
79	TAA350	69	20	Z024	CN27	IF/FM Detector Amp;It 20mA;VO 20mV;F 5.5MHz;Pt 400mW.
80	TAA570	69	2C	Z021	CN27	Four stage limiter-amp with FM detector;Vp 12V, fo-5.5MHz.
81#	TAA840	69	25	Z070	MP39b	A.M.Radio Ckt(R.F.Amp;Mixer-OSC;I.F.AMP;A.G.C.;Detector;Audio-Pre Amp;Driver) VS 6.0V.
82#	TBA120S	69	17	Z324	TO116	FM-IF-Amplifier w/Demodulator;Vs 12V;IF Imp 68db;Pd 400mW;NF 75db.
83▼#	TBA120SQ	69	17	Z324	MP☑	FM-IF Amplifier w/Demodulator;VS 12V;IF Imp 68dB;Pd 400mW;NF 75dB.
84#	TBA460§	69	07	Z276	MP337a	AM/FM-IF and AF Amp;Vs IF 12V;Vs AF 18V;Is 29mA;freq 30Hz-70kHz;Pd 10W.
85#	TBA460Q§	69	07	Z276	MP217a	AM/FM-IF and AF Amp;Vs IF 12V;Vs AF 18V;Is 29mA;freq 30Hz-70kHz;Pd 10W.
86#	TBA480	69	26	Z197	MP252a	FM Limiter amp. and quadrature detector;freq 5.5MHz;Vs 12V;Pd 500mW.
87♦#	TBA570	69	2C	Z198	MP337d	Receiver Circuit/AM and FM Reception/Mixer/Oscil/I.F.AMP-DETECTOR-A.F.PREAMP;Vs6.0V†;Pd1W†
88♦#	TBA570Q	69	2C	Z198	MP256	Receiver Circuit/AM and FM reception/Mixer/Oscil/I.F.AMP-DETECTOR-A.F.PREAMP;VS6.0V†;Pd1W†
89#	TBA581AX2	69	07			FM detector and limiter;Vs 15V;AM rejection 45dB;limiting voltage 100uV.
90#	TBA591AX2	69	07			FM detector and limiter;Vs 15V;AM rejection 45dB;output swing 3.8Vrms.
91#	TBA690	69	24	Z199	MP252a	Receiver Circuit/AM and FM reception/I.F.amp-A.F.preamp;A.F.Po 600mW;Vs 6.0V.
92#	TBA690%	69	2C	Z199	MP337d	Receiver Circuit/AM and FM reception/I.F.Amp-A.F.preamp;A.F.Po 600mW†;Vs 6.0V†.
93♦#	TBA700	69	25	Z199a	MP192a	Receiver Circuit/AM and FM reception/I.F.amp/A.F.output of 1.0W;VS 9.0V.
94#	TBA700%	69	2C	Z199	MP337d	Receiver Circuit/AM and FM reception/I.F.Amp-AF.Preamp;A.F.Po 1.0W†;Vs 9.0V†.
95#	TBA750	69	25		MP252a	FM Limiter amp/Quadrature Detector and AF amp;freq 4.5/5.5/10.7MHz;Vs 12V;Gv 7.0dB.
96#	TBA750A	69	25	Z311	MP337d	Limiter-Amplifier w/f.m.detector,d.c. volume control and a.f.pre-amp.
97#	TBA750AQ	69	25	Z311	MP256	Limiter-Amplifier w/f.m.detector,d.c. volume control and a.f.pre-amp.
98#	TBA750Q	69	25	-	MP256	FM Limiter amp/Quadrature Detector and AF amp;freq 4.5/5.5/10.7MHz;Vs 12V;Gv 7.0dB.
99#	TBA780	69	48	Z064	MP50	IF Amp-Limiter;FM Detector, Electronic Alternator, Audio Driver;Ro 270Ω;Ri 70kΩ.
100#	TCA420	69	28		MP317	IF/FM Discriminator/Amplifier;Pt 720mW;Vs 18V max;Is 40mA;Gain 65db;NF 60db min.
101#	TCA420A	69	28	Z315	MP256	I.F.Amp for tri-fi;Vs 15V†;fo 10.7MHz;Ptot 720mWΔ.
102#	TCA440	69	18	Z325	MP337a	Receiver for AM;Vs 9.0V;Is 12mA;Input Imp 2.0k max at 5.0pf.
103	ULN2111A	69	08	Z017	MP14w	FM Detector and Limiter;Pd 300mWΔ;Vs 15VΔ;freq. 5.0k - 50MHz.
104	ULN2111N	69	08	Z017	MP50b	FM Detector and Limiter;Pd 300mWΔ;Vs 15VΔ;freq. 5.0k - 50 MHz.
105	ULN2113A	69	08	Z153	MP14w	FM Detector and Limiter;Pd 300mWΔ;Vs 14VΔ;Is 22mAΔ;Freq 50MHzΔ.
106	ULN2113N	69	08	Z153	MP50b	FM Detector and Limiter;Pd 300mWΔ;Vs 14VΔ;Is 22mAΔ;Freq 50MHzΔ.
107	ULN2131M	69	38	Z243	MP48b	FM Limiter Amp;Pd 400mW;Vs 12V;Freq 10.7MHz;In/Out 330Ω/7.0pF.
108▼	ULN2136A	69	27	Z292	MP14w	FM Detector and Limiter;Pd 600mWΔ;Vs 20VΔ;Is 22mAΔ.
109▼	ULN2209M	69	27	Z356	MP48b	FM Limiter Amp;VCC 12V;Freq 10.7MHz;Gain 50dB;Pd 400mWΔ;Vo 110mVrms*.
110#	AN211	70	27		TO116	Stereo Demodulator;Pd 250mW†;Chan.Bal.2.0dB.

11. MISCELLANEOUS

IN ORDER OF (1) USE (2) TYPE No.

LINE No.	2 TYPE No.	1 USE	TC EO MP DE -+	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1#	AN258	70	27	Z304	TO116	FM Stereo Muting System.
2▼	CA3090AQ	70	5C	Z167	MP214	Stereo Multiplex Decoder;VS 10-16V;Zin 50kΩ;SCA Rej 55dB typ;Dist 0.5%.
3	HEP594-RT	70	07	Z202	TO116	Stereo Demodulator w/built in Stereo Channel Separation.
4	HEP595-RT	70	07	Z203	TO116	Stereo Demodulator;Permits use of external control for max. separation.
5	HEPC6056P-RT	70	07	Z066	TO116	Stereo Demodulator;Zin 20kΩ†;THD 500m%†;Pt 625mW;VS 22Vdc.
6	HEPC6065P-RT	70			TO116	FM Multiplex Stereo Demodulator.
7	MC1304P	70	07	Z030	TO116	FM Multiplex Stereo Demodulators;Pd 150mW†;THD 1.0%Δ;Zin 12kΩ*;Chan.Bal. 500mdB†.
8	MC1305P	70	07	Z031	TO116	FM Multiplex Stereo Demodulators;Pd 150mW†;THD 1.0%Δ;Zin 12kΩ*;Chan.Bal. 500mdB†.
9	MC1307PQ	70	07	Z066	MP160	Stereo Demodulator;VS 22V;Pd 140mW;Ri 20kΩ;Distortion .5%.
10	MC1310P	70	48	Z265	TO116	FM Stereo Demod;Vs 14V max;Pd 625mW max;Zi 50kΩ;THD .3%;40dB Chan.Sep;Audio Vo 485mV(RMS).
11	SK3078-RT	70	48		Δ001AC	12V,Stereo Decoder System in FM-Multiplex Stages for Hi-Fi Equipment.
12	SN76110N	70	07	Z066a	MP39h	Stereo Demodulator;THD .3%†;Zin 20kΩ†;VCC 14VΔ;Pd 625mWΔ.
13#	TCA290	70	38	Z332	MP192a	Stereo Multiplex Decoder;Vs 15V;Multiplex Inp Sign 1.0VΔ;Ri 50kΩ*;Dist.factor .20%.
14▼#	TCA290A	70	38		MP192a	Stereo Multiplex Decoder;VS 15V;Multiplex Inp Sign 1.0VΔ;Ri 50kΩ*;Dist factor .20%.
15♦	ULN2120A	70	27	Z030	MP14w	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 15kΩ*;Separation 45dB† 1kHz.
16▼	ULN2120N	70	27	Z030	MP50b	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 15kΩ*;Separation 45dB† at 1kHz.
17♦	ULN2121A	70	27	Z132	MP14w	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 20kΩ†;Vs 12V†.
18▼	ULN2121N	70	27	Z132	MP50b	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 20kΩ†;Vs 12V†.
19♦	ULN2122A	70	27	Z031	MP14w	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 15kΩ*;Separation 45dB† at 1kHz.
20▼	ULN2122N	70	27	Z031	MP50b	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 15kΩ*;Separation 45dB at 1kHz.
21♦	ULN2128A	70	27	Z066	MP14w	Stereo Demodulator;Pd 180mW;THD .5%;Rin 20kΩ†;Vs 12V†.
22▼	ULN2128N	70	27	Z066	MP50b	Stereo Demodulator;Pd 180mW†;THD .5%†;Rin 20kΩ†;Vs 12V†.
23#	L025T9	71	28	Z158	TO100	Balanced Modulator and Analogue AC Multiplier;Vs 30V;Pd 300mW;Ri 30kΩ;Vo 3.8V.
24	LM1304NO1	71	07	Z030	MP336	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
25	LM1304N	71	07	Z030	MP39	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
26	LM1305NO1	71	07	Z031	MP336	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
27	LM1305N	71	07	Z031	MP39	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
28	LM1307ENO1	71	07	Z132	MP336	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
29	LM1307EN	71	07	Z132	MP39	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
30	LM1307NO1	71	07	Z060	MP336	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
31	LM1307N	71	07	Z060	MP39	FM Multiplex Stereo Dem;Vs 22V;Pd 625mW;Ri 20kΩ;THD 500m%.
32	LM1310ENO1	71	07		MP336	FM Stereo Demodulator;Emitter Follower Outputs.
33	LM1310EN	71	07		MP39	FM Stereo Demodulator;Emitter Follower Outputs.
34	LM1310NO1	71	07		MP336	FM Stereo Demodulator;ΔVs 10V-24V;Separation 40db;Lamp Driver 100mA.
35	LM1310N	71	07		MP39	FM Stereo Demodulator;ΔVs 10V-24V;Separation 40db;Lamp Driver 100mA.
36	LM1496H	71	07	Z089	CN1d	Balanced modulator-demodulator; Pd 33mW†; Input Res 200kΩ†, Suppression 10MHzΔ.
37	LM1496N	71	07	Z089	MP39g	Balanced modulator-demodulator; Pd 33mW†; Input Res 200kΩ†; Suppression 10MHzΔ.
38	LM1596H	71	5C	Z089	CN1d	Balanced modulator-demodulator; Pd 33mW†; Input Res 200kΩ†, Suppression 10MHzΔ.
39	LS1496#1	71	07	Z052a	CN17	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;VO 8.0V†;Carr Supp 65dB†.
40	LS1496#2	71	07	Z052a	MP151b	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;VO 8.0V†;Carr Supp 65dB†.
41	LS1596#1	71	5C	Z052a	CN17	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;VO 8.0V†;Carr Supp 65dB†.
42	LS1596#2	71	5C	Z052a	MP151b	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;VO 8.0V†;Carr Supp 65dB†.
43	MC1330P	71	07	Z078	MP161	Low-level Video det;Sup VoH 24V;Sup Cur 26mA;Pt 625mW;Ro 18Ω;BW3dB IF Car 80MHz.
44	MC1445F§	71	07	E036	TO86	Gate Controlled Two-Channel-Input;VGOL 200mVdc*;VGOH 3.0VdcΔ;Pd 500mW.
45	MC1445G§	71	07	E036	CN10m	Gate Controlled Two-Channel-Input;VGOL 200mVdc*;VGOH 3.0VdcΔ;Pd 680MW.
46	MC1445L§	71	07	E036	TO116	Gate Controlled Two-Channel-Input;VGOL 200mVdc*;VGOH 3.0VdcΔ;Pd 625mW.
47	MC1496#1	71	07	Z052a	CN17	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;Vo 8.0V†;Carr.Supp 65dB†.
48	MC1496#2	71	07	Z052a	MP151b	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;Vo 8.0V†;Carr.Supp 65dB†.
49♦	MC1496G	71	07	Z052a	CN10m	Balanced Modulator-Demodulator;ΔVs 20§;Pd 33mW†;Vo 8.0†;Carr Suppr -65dB† at 500kHz.
50♦	MC1496L	71	07	Z052a	TO116	Balanced Modulator-Demodulator;ΔVs 20§;Pd 33mW†;Vo 8.0†;Carr Suppr -65dB† at 500kHz.
51▼	MC1496P	71	07	Z052a	MP307	Balanced Modulator-Demodulator;ΔVS 20§;Pd 33mW†;Vo 8.0V†;Carr.Suppr 65db† at 500kHz.
52	MC1545F§	71	5C	E036	TO86	Wideband Amp. Gate Controlled Two-Channel-Input;VGOL 450mVdc*;VGOH 2.2VdcΔ;Pd 500mW.
53	MC1545G§	71	5C	E036	CN10m	Wideband Amp. Gate Controlled Two-Channel-Input;VGOL 450mVdc*;VGOH 2.2VdcΔ;Pd 680mW.
54	MC1545L§	71	5C	E036	TO116	Wideband Amp.Gate Controlled Two-Channel-Input;VGOL 450mVdc*;VGOH 2.2VdcΔ;Pd 625mW.
55	MC1596#1	71	5C	Z052a	CN17	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;Vo 8.0V†;Carr.Supp 65dB†.
56	MC1596#2	71	5C	Z052a	MP151b	Balanced Modulator/Demod;ΔVs 20;Pd 33mW†;Vo 8.0V†;Carr.Supp 65dB†.
57♦	MC1596G	71	5C	Z052a	CN10m	Balanced Modulator-Demodulator;ΔVs 20§;Pd 33mW†;Vo 8.0†;Carr suppr -65dB† at 500kHz.
58♦	MC1596L	71	5C	Z052a	TO116	Balanced Modulator-Demodulator;ΔVs 20§;Pd 33mW†;Vo 8.0†;Carr Suppr -65dB† at 500kHz.
59	S5596K	71	5C	Z089	CN10h	Modulator Demodulator;VS 30V;Vi 5.0V;Bias Current 10mAΔ;Pd 680mWΔ.
60	S5596T	71	07		TO99	Balanced Modulator-Demodulator;ΔVs 20 Pd .33mW;Vo 8.0V.
61	SG1496N	71	07	Z052	TO116	Balanced Modulator/Demodulator;ΔVs 20V§;Pd 33mW†;Vo 8.0V†.
62	SG1496T	71	07	Z052	TO100	Balanced Modulator/Demodulator;ΔVs 20V§;Pd 33mW†;VO 8.0V†.
63	SG1596T	71	5C	Z052	TO100	Balanced Modulator/Demodulator;ΔVs 20V§;Pd 33mW†;Vo 8.0V†.
64#	SL640C	71	5C	Z050	CN11e	Double balanced Modulator;Vs 6.0V;Conversion Gain 2.0dbΔ;NF 5.0db;Quiescent Cur 12mA.
65#	SL641C	71	5C	Z049	CN11e	Double balanced Modulator;Vs 6.0V;Conversion transcond. 2.5mmho;NF 12db;Quiescent Cur 10mA
66#	SL1001A	71	2C	Z259	TO100	Double balanced Modulator;Vs 15V;Is 6.0mA;Io 3.5mA peak;Ro 12Ω.
67#	SL1001B	71	2C	Z259	TO100	Double balanced Modulator;Vs 15V;Is 4.0mA;Io 2.0mA peak;Ro 25Ω.
68#	TCA240	71	37	Z234	MP252e	Double Balanced Modulator/Demodulator.
69#	TCA540	71	25	Z317	MP337d	Synchronous Demodulator;Vs 12V†;IS 40mA†.
70#	TCA540Q	71	25	Z317	MP256	Synchronous Demodulator;Vs 12V†;IS 40mA†.
71▼#	TCA620	71	18		TO74	Balanced Frequency Modulator-Demodulator;ΔVS 20V;Pd 250mW.
72	uA746DC	71	07	Z062	TO116	Chroma Demodulator;Pd 430mWΔ;VS 28VΔ;IS 12.5mAΔ.
73	uA746HC	71	07	Z062	TO100	Chroma Demodulator;Pd 430mWΔ;VS 28VΔ;IS 12.5mAΔ.
74	uA746PC	71	07	Z062	MP252f	Chroma Demodulator;Pd 430mWΔ;VS 28VΔ;IS 12.5mAΔ.
75	uA786DC	71	48	Z320	MP178b	Synchronous TV Chroma Demodulator.
76	uA786PC	71	48	Z320	MP177a	Synchronous TV Chroma Demodulator.
77	uA796HC	71	07	Z321	TO100	Pd 500mW;Pos.IC 3.0mAΔ;Neg.IC 4.0mAΔ;Applied Volt 30V.
78	MC1364G	72	48	Z181	CN19	Automatic Frequency Control;Pt 680mW;ΔVi 12V§;Total Supply I 12mA
79	MC1364P	72	07	Z181	TO116	Automatic Frequency Control;Pt 625mW;ΔVi 12V§;Total Supply I 12mA
80	SK3070-RT	72	5C	D017	Δ006AF	30V,Automatic Frequency Control;AFC Stages for TV Receivers.
81#	TCA530	72	16	Z327	MP337e	30V Adj.Stabilization Switch for Tuning Diodes with fixed short circuit outp;Vi 47-63V.
82▼	ULN2264A	72	27	Z181	MP14w	Auto. Fine Tuning;Wideband and DC Amps;Detector and Volt.Reg;Pd 625mWΔ;ICC 6.5mA;IS 12mA.
83	A205	73	28		CB∅	Wideband Automatic Gain Ranging Amp;70dB range;DC-15kHz;TC 20uV/°C.
84	A206	73	28		CB∅	Wideband Automatic Gain Ranging Amp;70dB range;DC-15kHz;TC 10uV/°C.
85	A207	73	28		CB∅	Wideband Automatic Gain Ranging Amp;70dB range;DC-15kHz;TC 5uV/°C.
86#	AN302	73	26	Z299	MP178	VTR Video AGC Circuit;Vs 9-12V;AGC;Pre-emphasis;Clamp;White Clip;Distortion .5%.
87	LM170§	73	07	C004	CN17	AGC/Squelch Amp;Δ Vo Shift ±1V,Gv Vs Control V 30dB at 2.2V,-30dB at 2.5V.
88	LM170H§	73	5C	C004	CN8	AGC/Squelch Sys;VS 24V;AV 37.5dB*;Vi ±19V;Bias current 10uA max.
89	LM270§	73	5C	C004	CN17	AGC/Squelch Amp;Δ Vo Shift ±500mV,Gv Vs Control V 30dB at 2.2V,-30dB at 2.5V.
90	LM270H§	73	27	C004	CN8	AGC/Squelch Sys;VS 24V;AV 37.5dB*;Vi ±19V;Bias current 10uA max.
91	LM370§	73	27	C004	CN17	AGC/Squelch Amp;Δ Vo Shift ±200mV;Gv Vs Control V 30dB at 2.2V,30dB at 2.5V.
92	LM370H§	73	07	C004	CN8	AGC/Squelch Sys;VS 24V;AV 35dB*;Vi ±19V;Bias current 12uA max.
93	LM370N§	73	07	C004	MP39n	AGC/Squelch Sys;VS 24V;AV 35dB*;Vi ±19V;Bias current 12uA max.
94	LS170	73	5C	Z217	CN17	AGC/Squelch/VOX Amp;Vs 24Δ;IPS 13.5mA†;AV 37.5dB*.
95	LS270	73	27	Z217	CN17	AGC/Squelch/VOX Amp;Vs 24Δ;IPS 13.5mA†;AV 37.5dB*.
96	LS370	73	07	Z217	CN17	AGC/Squelch/VOX Amp;Vs 24Δ;IPS 13.5mA†;AV 35dB*.
97#	SL620C	73	6G	Z048a	CN11e	AGC Generator;Vs 6.0V;Vo 2.0V*;Quiescent Cur 4.1mAΔ;Ro 40Ω;Ri 1.4kΩ.
98#	SL621C	73	6G	Z048	CN11e	AGC Generator;Vs 6.0V;Vo 5.1V*;Quiescent Cur 4.1mAΔ;Ro 70Ω;Ri 500Ω.
99#	S042P	74	17	Z278	MP39m	Freq up to 200MHz;Vs 14V;Is 900uA;Outp Cap 6.0pf;Mixing Gain 5.0mS;NF 7.0db.
100	SN56514J	74	5C	Z144	MP139	Balanced Mixers;VCC 12V Typ;RF-IF Isolation 30dB Typ;Conv.Gain 14dB Typ.
101	SN56514L	74	5C	Z144	TO100	Balanced Mixers;VCC 12V Typ;RF-IF Isolation 30dB Typ;Conv.Gain 14dB Typ.
102♦	SN56514N	74	5C	Z144	MP39h	Balanced Mixers;VCC12Vtyp;RF-IF Isolation 28dB typ;Conv-Gain 14dB typ.
103	SN76514J	74	07	Z144	MP139	Balanced Mixers;VCC 12V Typ;RF-IF Isolation 30dB Typ;Conv.Gain 14dB Typ.
104	SN76514L	74	07	Z144	TO100	Balanced Mixers;VCC 12V Typ;RF-IF Isolation 30dB Typ;Conv.Gain 14dB Typ.
105	SN76514N	74	07	Z144	MP39h	Balanced Mixers;VCC 12V Typ;RF-IF Isolation 30dB Typ; Conv.Gain 14dB Typ.
106	CD4046AD	75	5C	Z264	Δ001AD	COS/MOS Micropower Phase-Locked Loop;Pd 200mW;Freq 500kHz;Ri 1.0TΩ;Vo 10Vp-p.
107	CD4046AE	75	48	Z264	Δ001AB	COS/MOS Micropower Phase-Locked Loop;Pd 200mW;Freq 500kHz;Ri 1.0TΩ;Vo 10Vp-p.
108	CD4046AK	75	5C	Z264	Δ004AF	COS/MOS Micropower Phase-Locked Loop;Pd 200mW;Freq 500kHz;Ri 1.0TΩ;Vo 10Vp-p.
109	HA1F2800	75	5C	Z285	MP348	Freq. 5.0MHz to 25MHz;ΔVs 30V;Pd 500mW;Zin 2.0kΩ;Zout 8MΩ;Ri 850Ω;Demod.Out 250mV.
110	HA1F2805	75	07	Z285	MP348	Freq. 5.0MHz to 20MHz;ΔVs 30V;Pd 500mW;Zin 2.0kΩ;Zout 8MΩ;Ri 850Ω;Demod.Out 250mV.

11. MISCELLANEOUS

LINE No.	[2] TYPE No.	[1] USE	TCO MDE	DRAWINGS CKT.	DRAWINGS OUT-LINE Δ=MO	GENERAL DESCRIPTION
1	HA1S2820	75	5C	Z286	MP14ab	Freq. .01Hz to 3MHz;ΔVs 24V;Pd 300mW;Zin 100kΩ;Zout 10MΩ;Ri 500Ω;Demod.Out 1.4kV.
2	HA1S2825	75	07	Z286	MP14ab	Freq. .01Hz to 3MHz;ΔVs 24V;Pd 300mW;Zin 100kΩ;Zout 10MΩ;Ri 500Ω;Demod.Out 1.4kV.
3	LM565CH	75	07	Z177	CN1d	Phase locked loops;Pd 300mW;Vs 12V;Freq 500kHz;Output Imp. 5.0kΩ;THD 1.5%†.
4	LM565CN	75	07	Z177	MP39g	Phase Locked loops; Pd 300mW;Vs 12V; Freq 500kHz; Output Imp. 5.0kΩ; THD 1.5%†.
5	LM565H	75	5C	Z177	CN1d	Phase locked loops; P300mW;Vs 12V; Freq 500kHz;Output Imp. 5.0kΩ;THD .75%†.
6	LM1800N	75	07	Z293	MP337c	FM Stereo Demodulator;VS 24V;Pd 575mW;Syn. Ri 20kΩ*.
7	NE560B	75	07	Z096	MP192	Phase Locked Loop;Freq. 30MHz;Vi 1.0Vrms;Pd 300mW;Ri 2.0kΩ.
8	NE561B	75	07	Z097	MP192	Phase Locked Loop;Freq. 30MHz;Vi 1.0Vrms;Pd 300mW;Ri 2.0kΩ.
9	NE562B	75	07	Z134	MP192b	Phase Locked Loop;Freq. 30MHz;Vi 3.0Vrms;Pd 300mW;Ri 2.0kΩ.
10	NE565A	75	07	Z135	MP153	Phase Locked Loop;Freq. 500kHz;ΔVs 24V;Pd 300mW;Ri 5.0kΩ;Vi 1.0Vpp.
11	NE565K	75	07	Z135	CN10h	Phase Locked Loop;Freq. 500kHz;ΔVS 24V;Pd 300mW;Ri 5.0kΩ;Vi 1.0Vpp.
12	SE565K	75	5C	Z135	CN10h	Phase Locked Loop;Freq. 500kHz;ΔVS 24V;Pd 300mW;Ri 5.0kΩ;Vi 1.0Vpp.
13#	SL650C	75		Z284	MP280	MODULATOR; FREQ UP TO 2MHz;VS±6V;IS 1.5mA
14	uA758DC	75	48	Z319	MP178a	FM Stereo Multiplex Decoder;Pd 730mWΔ;VS 18VΔ;IS 35mAΔ.
15	uA758PC	75	48	Z319	MP177a	FM Stereo Multiplex Decoder;Pd 730mWΔ;VS 18VΔ;IS 35mAΔ.
16	uA780DC	75	5C	Z205	MP178b	Chroma Subcarrier Regenerator;Pd 730mW;IS 26mA†.
17	uA780PC	75	5C	Z205	MP177a	Chroma Subcarrier Regenerator;Pd 730mW;IS 26mA†.

12. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-M-38510/
M38510/10101AAA	none	101C
M38510/10101AAB	none	101C
M38510/10101AAC	none	101C
M38510/10101ABA	none	101C
M38510/10101ABB	none	101C
M38510/10101ABC	none	101C
M38510/10101ACA	none	101C
M38510/10101ACB	none	101C
M38510/10101ACC	none	101C
M38510/10101ADA	none	101C
M38510/10101ADB	none	101C
M38510/10101ADC	none	101C
M38510/10101AGA	none	101C
M38510/10101AGB	none	101C
M38510/10101AGC	none	101C
M38510/10101AHA	none	101C
M38510/10101AHB	none	101C
M38510/10101AHC	none	101C
M38510/10101BAA	none	101C
M38510/10101BAB	none	101C
M38510/10101BAC	none	101C
M38510/10101BBA	none	101C
M38510/10101BBB	none	101C
M38510/10101BBC	none	101C
M38510/10101BCA	none	101C
M38510/10101BCB	FSC	☑
M38510/10101BCC	none	101C
M38510/10101BDA	none	101C
M38510/10101BDB	none	101C
M38510/10101BDC	none	101C
M38510/10101BGA	FSC	☑
M38510/10101BGB	none	101C
M38510/10101BGC	FSC	101C
M38510/10101BHA	none	101C
M38510/10101BHB	FSC	☑
M38510/10101BHC	FSC	☑
M38510/10101CAA	none	101C
M38510/10101CAB	none	101C
M38510/10101CAC	none	101C
M38510/10101CBA	FSC	☑
M38510/10101CBB	none	101C
M38510/10101CBC	none	101C
M38510/10101CCA	none	101C
M38510/10101CCB	FSC	☑
M38510/10101CCC	none	101C
M38510/10101CDA	none	101C
M38510/10101CDB	none	101C
M38510/10101CDC	none	101C
M38510/10101CGA	FSC	☑
M38510/10101CGB	none	101C
M38510/10101CGC	FSC	101C
M38510/10101CHA	none	101C
M38510/10101CHB	FSC	☑
M38510/10101CHC	FSC	☑
M38510/10102AAA	none	101C
M38510/10102AAB	none	101C
M38510/10102AAC		101C
M38510/10102ABA	none	101C
M38510/10102ABB	none	101C
M38510/10102ABC	none	101C
M38510/10102ACA	none	101C
M38510/10102ACB	none	101C
M38510/10102ACC	none	101C
M38510/10102ADA	none	101C
M38510/10102ADB	none	101C
M38510/10102ADC	none	101C
M38510/10102AIA	none	101C
M38510/10102AIB	none	101C
M38510/10102AIC	none	101C
M38510/10102BAA	none	101C
M38510/10102BAB	none	101C
M38510/10102BAC	none	101C
M38510/10102BBA	none	101C
M38510/10102BBB	none	101C
M38510/10102BBC	none	101C
M38510/10102BCA	none	101C
M38510/10102BCB	FSC	☑
M38510/10102BCC	none	101C
M38510/10102BDA	none	101C
M38510/10102BDB	none	101C
M38510/10102BDC	none	101C
M38510/10102BIA	FSC	☑
M38510/10102BIB	none	101C
M38510/10102BIC	FSC	☑
M38510/10102CAA	none	101C
M38510/10102CAB	none	101C
M38510/10102CAC	none	101C
M38510/10102CBA	none	101C
M38510/10102CBB	none	101C
M38510/10102CBC	none	101C
M38510/10102CCA	none	101C
M38510/10102CCB	FSC	☑
M38510/10102CCC	none	101C
M38510/10102CDA	none	101C
M38510/10102CDB	none	101C
M38510/10102CDC	none	101C
M38510/10102CIA	FSC	☑
M38510/10102CIB	none	101C
M38510/10102CIC	FSC	☑
M38510/10103ACA	none	101C
M38510/10103ACB	none	101C
M38510/10103ACC	none	101C
M38510/10103AGA	none	101C
M38510/10103AGB	none	101C
M38510/10103AGC	none	101C
M38510/10103AHA	none	101C
M38510/10103AHB	none	101C
M38510/10103AHC	none	101C
M38510/10103BCA	none	101C
M38510/10103BCB	none	101C
M38510/10103BCC	none	101C
M38510/10103BGA	none	101C
M38510/10103BGB	none	101C
M38510/10103BGC		101C
M38510/10103BHA	none	101C
M38510/10103BHB	none	101C
M38510/10103BHC	none	101C
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M38510/10103CCC	none	101C
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M38510/10103CHC	none	101C
M38510/10104ACA	none	101C
M38510/10104ACB	none	101C
M38510/10104ACC	none	101C
M38510/10104AGA	none	101C
M38510/10104AGB	none	101C
M38510/10104AGC	none	101C
M38510/10104AHA	none	101C
M38510/10104AHB	none	101C
M38510/10104AHC	none	101C
M38510/10104BCA	none	101C
M38510/10104BCB	none	101C
M38510/10104BCC	none	101C
M38510/10104BGA	none	101C
M38510/10104BGB	none	101C
M38510/10104BGC	none	101C
M38510/10104BHA	none	101C
M38510/10104BHB	none	101C
M38510/10104BHC	none	101C
M38510/10104CCA	none	101C
M38510/10104CCB	none	101C
M38510/10104CCC	none	101C
M38510/10104CGA	none	101C
M38510/10104CGB	none	101C
M38510/10104CGC	none	101C
M38510/10104CHA	none	101C
M38510/10104CHB	none	101C
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M38510/10201BAA	none	102
M38510/10201BAB	none	102
M38510/10201BAC	MOTA	102
M38510/10201BBA	none	102
M38510/10201BBB	none	102
M38510/10201BBC	none	102
M38510/10201BCA	none	102
M38510/10201BCB	FSC	☑
M38510/10201BCC	MOTA	102
M38510/10201BDA	none	102
M38510/10201BDB	none	102
M38510/10201BDC	none	102
M38510/10201BHA	MOTA	☑
M38510/10201BHB	MOTA	☑
M38510/10201BHC	none	102
M38510/10201BIA	FSC	☑
M38510/10201BIB	none	102
M38510/10201BIC	FSC	☑
M38510/10201CAA	none	102
M38510/10201CAB	none	102
M38510/10201CAC	none	102
M38510/10201CBA	none	102
M38510/10201CBB	none	102
M38510/10201CBC	none	102
M38510/10201CCA	MOTA	☑
M38510/10201CCB	FSC	☑
M38510/10201CCC	MOTA	102
M38510/10201CDA	none	102
M38510/10201CDB	none	102
M38510/10201CDC	none	102
M38510/10201CHA	MOTA	☑
M38510/10201CHB	none	☑
M38510/10201CHC	none	102
M38510/10201CIA	FSC	☑
M38510/10201CIB	MOTA	102
M38510/10201CIC	FSC	☑
M38510/10301ACA	MOTA	103A
M38510/10301ACB	none	103A
M38510/10301ACC	none	103A
M38510/10301AGA	none	103A
M38510/10301AGB	none	103A
M38510/10301AGC	none	103A
M38510/10301AHA	none	103A
M38510/10301AHB	none	103A
M38510/10301AHC	none	103A
M38510/10301BCA	none	103A
M38510/10301BCB	FSC	☑
M38510/10301BCC	none	103A
M38510/10301BGA	FSC	☑
M38510/10301BGB	none	103A
M38510/10301BGC	FSC	☑
M38510/10301BHA	none	103A
M38510/10301BHB	FSC	☑
M38510/10301BHC	FSC	☑
M38510/10301CCA	none	103A
M38510/10301CCB	FSC	☑
M38510/10301CCC	none	103A
M38510/10301CGA	FSC	☑
M38510/10301CGB	none	103A
M38510/10301CGC	FSC	☑
M38510/10301CHA	none	103A
M38510/10301CHB	none	103A
M38510/10301CHC	FSC	☑
M38510/10302ACA	none	103A
M38510/10302ACB	none	103A
M38510/10302ACC	none	103A
M38510/10302AHA	none	103A
M38510/10302AHB	none	103A
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M38510/10302AIA	none	103A
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M38510/10302BHC	none	103A
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M38510/10302BIB	none	103A
M38510/10302BIC	none	103A
M38510/10302CCA	none	103A
M38510/10302CCB	none	103A
M38510/10302CCC	none	103A
M38510/10302CHA	none	103A
M38510/10302CHB	none	103A
M38510/10302CHC	none	103A
M38510/10302CIA	none	103A
M38510/10302CIB	none	103A
M38510/10302CIC	none	103A
M38510/10303AAA	none	103A
M38510/10303AAB	none	103A
M38510/10303AAC	none	103A
M38510/10303AGA	none	103A
M38510/10303AGB	none	103A
M38510/10303AGC	none	103A
M38510/10303BAA	none	103A
M38510/10303BAB	none	103A
M38510/10303BAC	none	103A
M38510/10303BGA	none	103A

☑ - QPL 38510 Part II (See Military Documents)
All others listed in Part I.

12. TYPES WITH U.S. MILITARY SPECIFICATIONS

IN TYPE NUMBER SEQUENCE

TYPE No.	MFRS	MIL-M-38510/
M38510/10303BGB	none	103A USAF
M38510/10303BGC	none	103A USAF
M38510/10303CAA	none	103A USAF
M38510/10303CAB	none	103A USAF
M38510/10303CAC	none	103A USAF
M38510/10303CGA	none	103A USAF
M38510/10303CGB	none	103A USAF
M38510/10303CGC	none	103A USAF
M38510/10304AGA	none	103A USAF
M38510/10304AGB	none	103A USAF
M38510/10304AGC	none	103A USAF
M38510/10304AHA	none	103A USAF
M38510/10304AHB	none	103A USAF
M38510/10304AHC	none	103A USAF
M38510/10304BGA	none	103A USAF
M38510/10304BGB	none	103A USAF
M38510/10304BGC	none	103A USAF
M38510/10304BHA	none	103A USAF
M38510/10304BHB	none	103A USAF
M38510/10304BHC	none	103A USAF
M38510/10304CGA	none	103A USAF
M38510/10304CGB	none	103A USAF
M38510/10304CGC	none	103A USAF
M38510/10304CHA	none	103A USAF
M38510/10304CHB	none	103A USAF
M38510/10304CHC	none	103A USAF
M38510/10601ACA	none	106
M38510/10601ACB	none	106
M38510/10601ACC	none	106
M38510/10601AGA	none	106
M38510/10601AGB	none	106
M38510/10601AGC	none	106
M38510/10601AHA	none	106
M38510/10601AHB	none	106
M38510/10601AHC	none	106
M38510/10601BCA	none	106
M38510/10601BCB	none	106
M38510/10601BCC	none	106
M38510/10601BGA	none	106
M38510/10601BGB	none	106
M38510/10601BGC	none	106
M38510/10601BHA	none	106
M38510/10601BHB	none	106
M38510/10601BHC	none	106
M38510/10601CCA	none	106
M38510/10601CCB	none	106
M38510/10601CCC	none	106
M38510/10601CGA	none	106
M38510/10601CGB	none	106
M38510/10601CGC	none	106
M38510/10601CHA	none	106
M38510/10601CHB	none	106
M38510/10601CHC	none	106
M38510/10602ACA	none	106
M38510/10602ACB	none	106
M38510/10602ACC	none	106
M38510/10602AGA	none	106
M38510/10602AGB	none	106
M38510/10602AGC	none	106
M38510/10602AHA	none	106
M38510/10602AHB	none	106
M38510/10602AHC	none	106
M38510/10602BCA	none	106
M38510/10602BCB	none	106
M38510/10602BCC	none	106
M38510/10602BGA	none	106
M38510/10602BGB	none	106
M38510/10602BGC	none	106
M38510/10602BHA	none	106
M38510/10602BHB	none	106
M38510/10602BHC	none	106
M38510/10602CCA	none	106
M38510/10602CCB	none	106
M38510/10602CCC	none	106
M38510/10602CGA	none	106
M38510/10602CGB	none	106
M38510/10602CGC	none	106
M38510/10602CHA	none	106
M38510/10602CHB	none	106
M38510/10602CHC	none	106
M38510/10701AXA	none	107 USAF
M38510/10701AXB	none	107 USAF
M38510/10701AXC	none	107 USAF
M38510/10701AYA	none	107 USAF
M38510/10701AYB	none	107 USAF
M38510/10701AYC	none	107 USAF
M38510/10701BXA	none	107 USAF
M38510/10701BXB	none	107 USAF
M38510/10701BXC	none	107 USAF
M38510/10701BYA	none	107 USAF
M38510/10701BYB	none	107 USAF
M38510/10701BYC	none	107 USAF
M38510/10701CXA	none	107 USAF
M38510/10701CXB	none	107 USAF
M38510/10701CXC	none	107 USAF
M38510/10701CYA	none	107 USAF
M38510/10701CYB	none	107 USAF
M38510/10701CYC	none	107 USAF

MILITARY DOCUMENTS

Department of Defense Index of Specifications and Standards dated 1 July 1972, Supplement dated 1 May 1973.

Device Manufacturers Qualifications on Test Reference Letter.

MIL–M–38510B (USAF) Military Specification, General Specification for Microcircuits, dated 1 October 1973.

QPL–38510–14 Qualified Products List (Part I) of Products Qualified Under MIlitary Specification MIL–M–38510, dated 22 March 1974.
Qualified Products List (Part II) of Products Qualified Under Military Specification MIL–M–38510, dated 22 March 1974.
These products are considered qualified products. Therefore, manufacturers listed on QPL–38510 shall "JAN" mark and ship the specific part numbered devices for which they are listed, providing all required quality conformance inspections have been successfully completed. They have not been subjected to all the tests required for qualification under the latest effective issue of MIL–M–38510; however, the manufacturers have performed sufficent similar tests to indicate that the products have the potential of complying with the MIL–M–38510 requirements.

MIL–STD–883 Military Standard; Test Methods and Procedures for Microelectronics, dated 1 May 1968, Notice 4, dated 31 August 1972.

CIRCUIT DRAWING NUMBERING SIGNIFICANCE

Example: A 001 a

- A — Prefix shows section in which technical data appears.
- 001 — Serial assignment within section.
- a — Tabulated drawing — see suffix "a" on chart with drawing.

LETTER PREFIX	TECHNICAL SECTION	APPLIES TO No.
A	OPERATIONAL AMPLIFIERS	3
B	DIFFERENTIAL AMPLIFIERS	4
C	AUDIO AMPLIFIERS	5
D	RF/IF AMPLIFIERS	6
E	WIDEBAND AMPLIFIERS	7
F	VOLTAGE REGULATORS	8
G	VOLTAGE COMPARATORS	9
Z	MISCELLANEOUS	10 & 11

NOTES

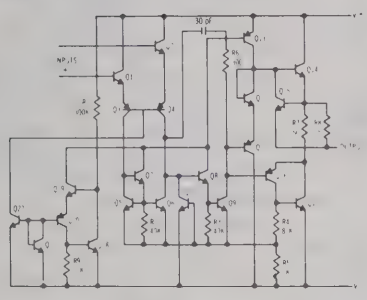
These outline drawings are intended as a guide for the user. They should not be used for construction purposes without first checking with the appropriate manufacturer.

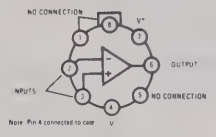
These drawings are referenced in the Technical Sections of this D.A.T.A.BOOK in accordance with information supplied by the manufacturers.

The DO and TO drawings have been reproduced from JEDEC Registration Data Files with the permission of the National Electrical Manufacturer's Association – Electronic Industries Association. JEDEC designations are assigned only to outlines submitted by the JC-11 Committee on Mechanical Standardization. The procedure of assigning and announcing the JEDEC designation constitutes registration.

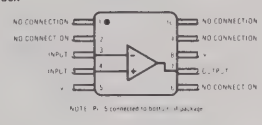
All drawings have circular symmetry unless otherwise indicated.

A001

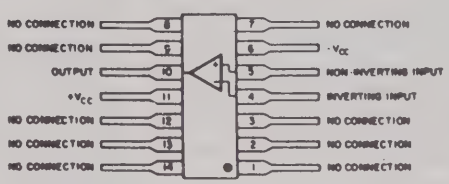




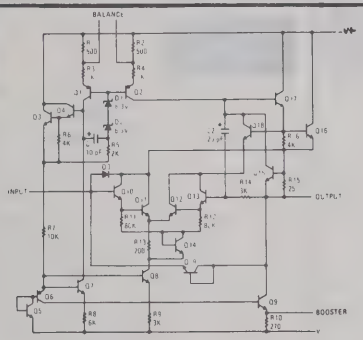
Flat Pack

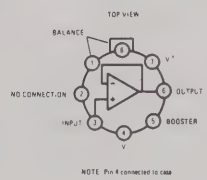


	I_{N-}	I_N	V	OUT	V-
TO91 & CN	2	3	7	6	4
TO99 & FP	3	4	8	7	5
MP	CONSULT MFR-NO INFO				

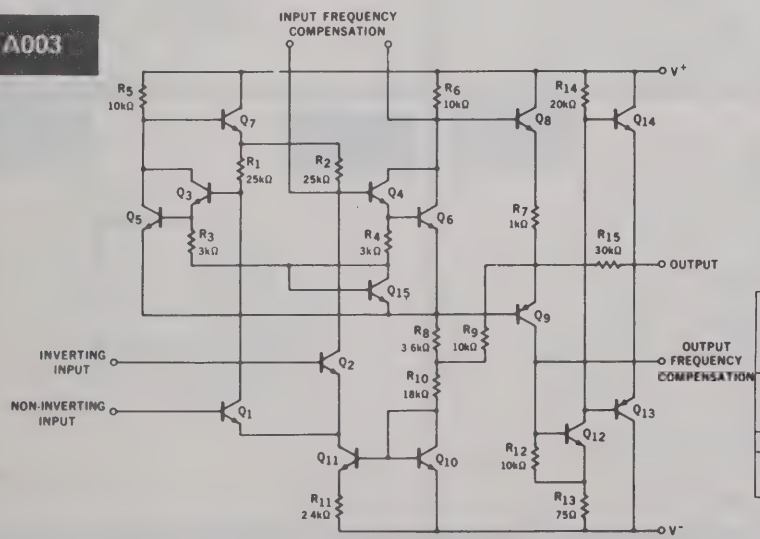


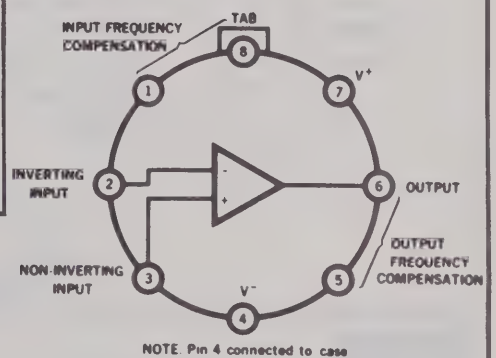
A002





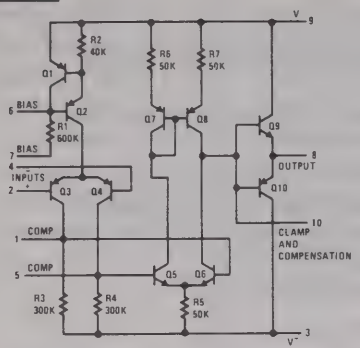
A003



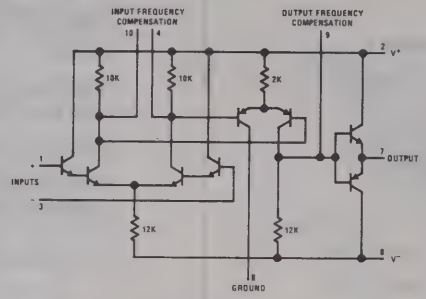


	CKT NO.	IN FREQ COMP 1	IN FREQ COMP 2	IN-	IN+	V+	OUT	OUT FREQ COMP	V-
TO99 CN and TO76	1	1	8	2	3	7	6	5	4
TO91 and FP	1	2	9	3	4	8	7	6	5
MP	1	3	12	4	5	11	10	9	6
CN	1	4	3	5	6	14	2	1	7
	2	10	11	8	9	14	12	13	7

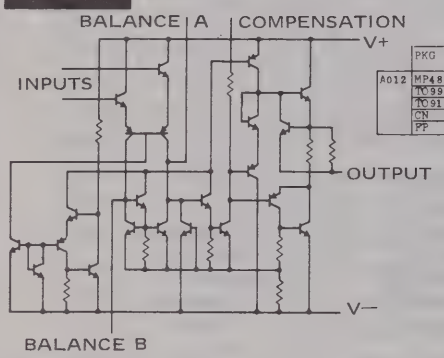
A004



A005



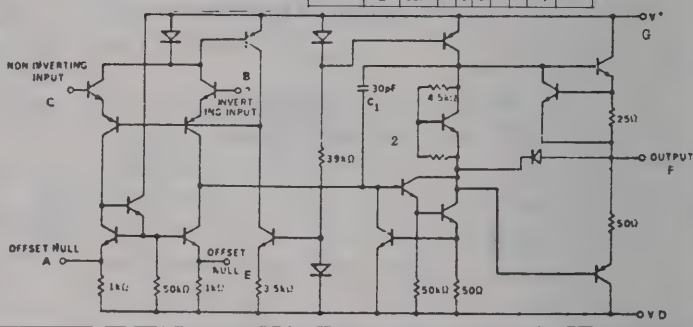
A012



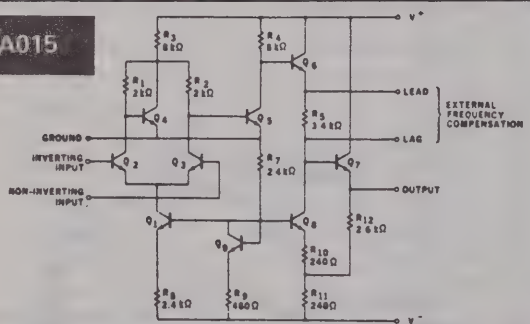
	PKG	BAL A	BAL B	COMP	INPUTS -	INPUTS +	V +	V -	OUTPUT
A012	MP48	1	5	8	2	3	7	4	6
	TO99								
	TO91	2	6	9	3	4	8	5	7
	CN	1	5		2	3	7	4	6
	FP	3	9	12	4	5	11	6	10

A014

	CKT NO.	PKG	A	B	C	D	E	F	G
A014	1	CN	1	2	3	4	5	6	7
	1	FP	2	3	4	5	6	7	8
	1	MP	3	4	5	6	9	10	11
A014a	1	CN		2	3	4		1	8
	2	CN		6	5			7	



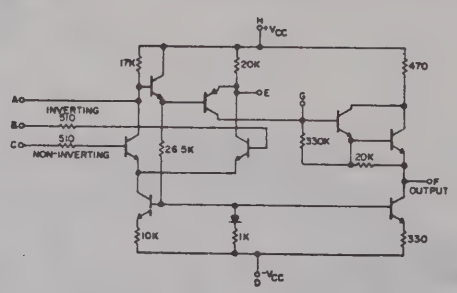
A015



	COM	INV IN	NON INV IN	V-	LAG	LEAD	OUT	V	NC
TO77 and TO99	1	2	3	4*	6	5	7	8	
FP	2	3	4	5	7	6	8	10	1,9
TO116	3	4	5	6	10	9	11	13	

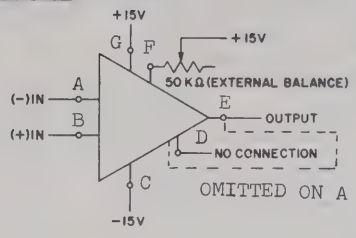
* CONNECTED TO CASE

A019



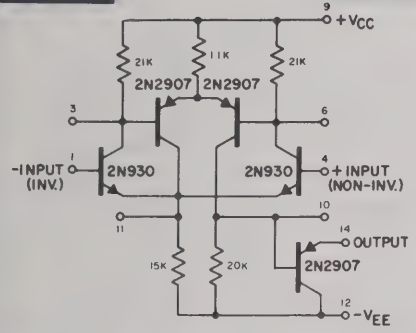
PACKAGE	A	B	C	D	E	F	G	H
CN	1	2	3	4	5	6	7	8
FP	2	3	4	5	7	8	9	10
MP	3	4	5	7	10	11	12	14

A023

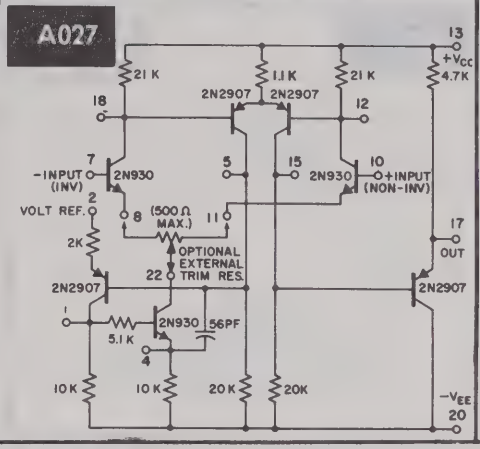


	A	B	C	D	E	F	G
A023	2	1	5	6	4	3	7
A023a	2	1	6		5	3	4

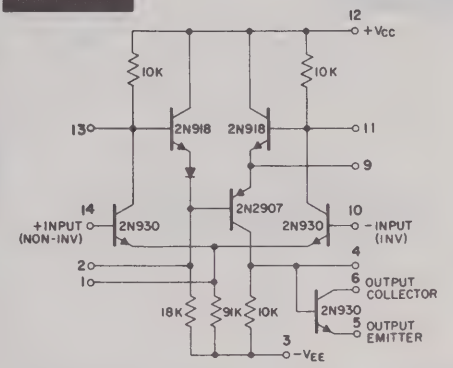
A026



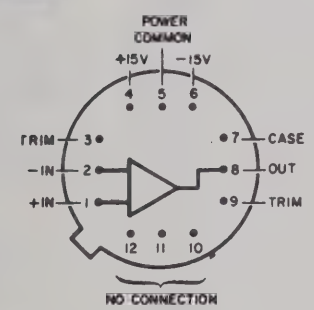
A027



A028

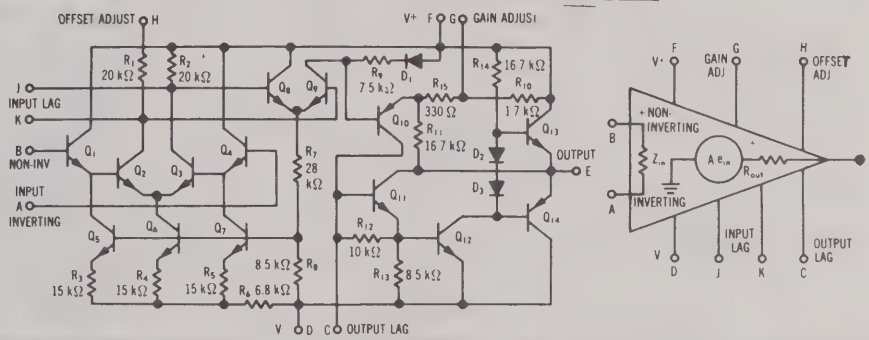


A031

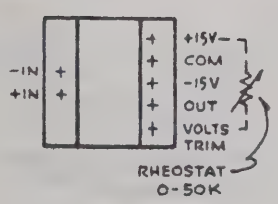


A033

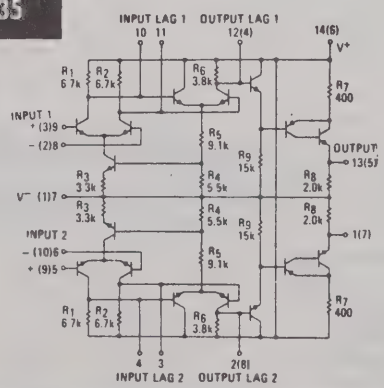
PACKAGE	A	B	C	D	E	F	G	H	J	K
CN	1	2	3	4	5	6	7	8	9	10
TO91	10	1	2	3	4	5	6	7	8	9
TO116	4	5	6	7	11	12	13	14	2	3



A034

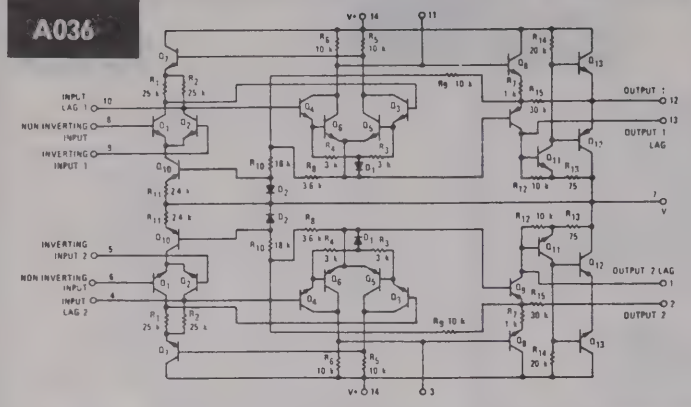


A035

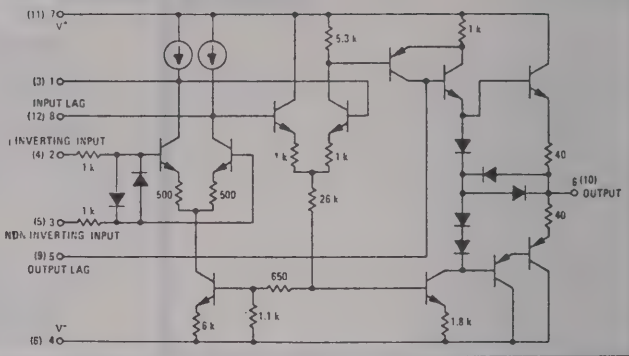


Number at end of terminal is pin number for both flat and plastic packages. Number in parenthesis is pin number for metal can package. Input lag available in flat and plastic packages.

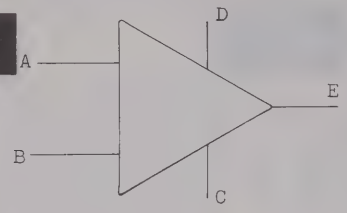
A036



A037

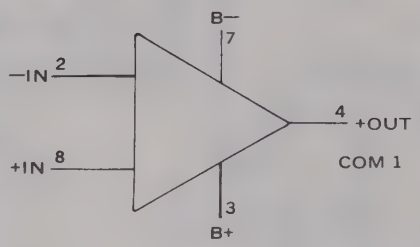


A039

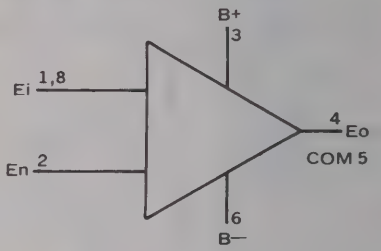


	A	B	C	D	E	COM
A039	-Ei	+Eb	B+	B-	+Eo	5
	1	8	3	6	4	

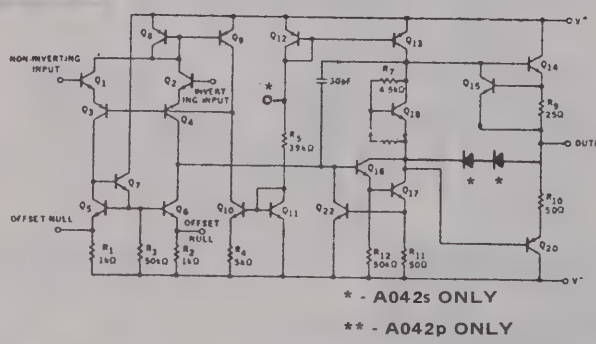
A040



A041

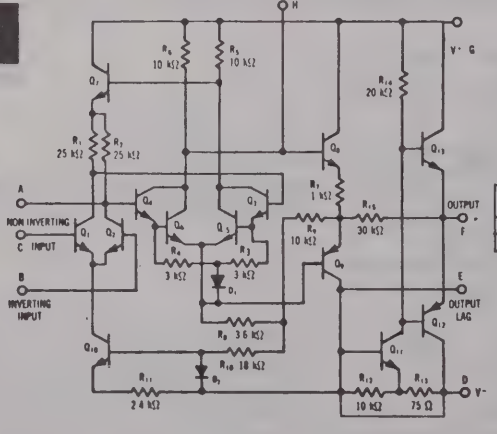


A042



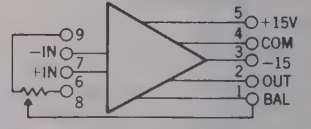
	PKG	CKT	V	V-	INPUT INV	INPUT NON INV	OFFSET NULL 1	OFFSET NULL 2	OUTPUT	COMP
A042	TO99 and FC	1	7	4	2	3	1	5	6	
	FP or MP	1	11	6	4	5	3	9	10	
A042a	MP	1	13	4	1	2	3	5	12	
		2	9		7	6	8	14	10	
A042b		1	7	4	2	3	1		6	8
A042d	TO99	1	2	5	3	4			1	
		2	8	5	7	6			9	
A042e	MP	1	11	6	4	5	3	9	10	12
	CN or MP	1	7	4	2	3	1	5	6	8
A042f	TO99	1	7	4	2	3	1	5	6	NA
A042g	TO91	1	8	5	3	4	2	6	7	
A042h	MP or CN	1	8	4	2	3			1	
		2	8	4	6	5			7	
A042k	CN or MP	1	7	4	2	3	1	5	6	
	TO91	1	8	5	3	4	2	6	7	
	TO116 or MP	1	11	6	4	5	3	9	10	
A042m	TO99 or CN	1	7	4	2	3	1	5	6	
	FP or MP	1	11	6	4	5	3	9	10	
A042n,s	CN or FP	1	2	5	3	4			1	
		2	8		7	6			9	
	MP	1	13	4	1	2	3	14	12	
		2	9		7	6	5	8	10	
A042p	CN or MP	1	8	4	2	3			1	
		2			6	5			7	
A042q	FP or MP	1	13	4	1	2	3	14	12	
		2	9		7	6	5	8	10	
A042r	TO79	1	7	4	2	3	1	5	6	

A043



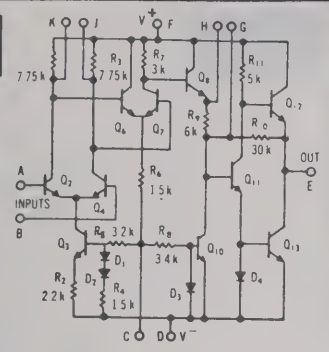
	A	B	C	D	E	F	G	H
TO99 and FC	1	2	3	4	5	6	7	8
TO91	2	3	4	5	6	7	8	9
MP	3	4	5	6	9	10	11	12

A044



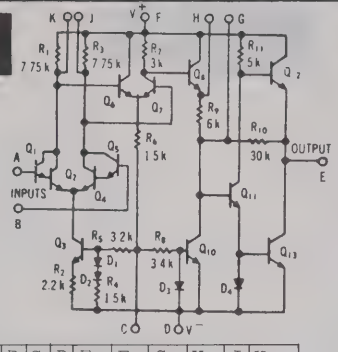
*If offset voltage adjustment is not needed, the potentiometer can be deleted and pins 1, 8 and 9 connected together.

A045



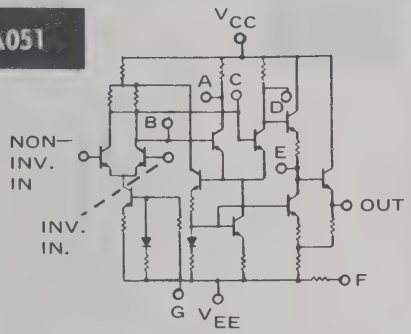
PACKAGE	A	B	C	D	E	F	G	H	J	K
CN	1	2	3	4	5	6	7	8	9	10
TO91	1	2	3	4	5	6	7	8	9	10
TO116	4	6	8	7	11	12	13	14	1	2

A046



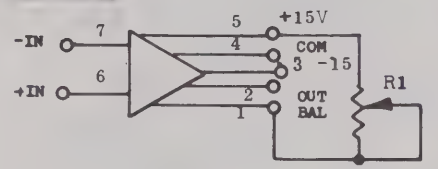
PACKAGE	A	B	C	D	E	F	G	H	J	K
CN	1	2	3	4	5	6	7	8	9	10
TO91	1	2	3	4	5	6	7	8	9	10
TO116	4	6	8	7	11	12	13	14	1	2

A051



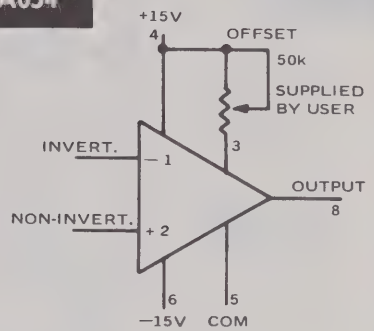
	PACKAGE	NON INV IN	INV IN	VEE	VCC	OUT	A	B	C	D	E	F	G
A051	FP,MP, TO116	4	3	6	13	12	14	1	9	10	11	8	2
	CN	3	2	4	10	9	11	12	6	7	8	5	1

A053

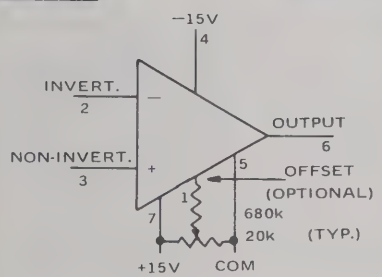


	R1
A053	ADJUSTABLE
A053a	FIXED
A053b	CONNECTED TO 3 INSTEAD OF 1

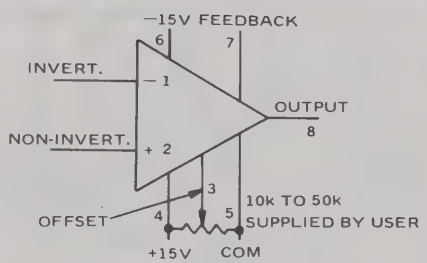
A054



A055



A056



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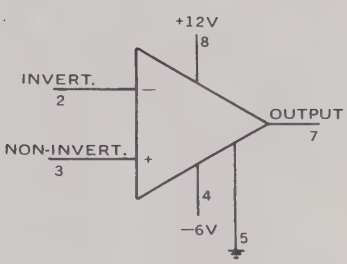

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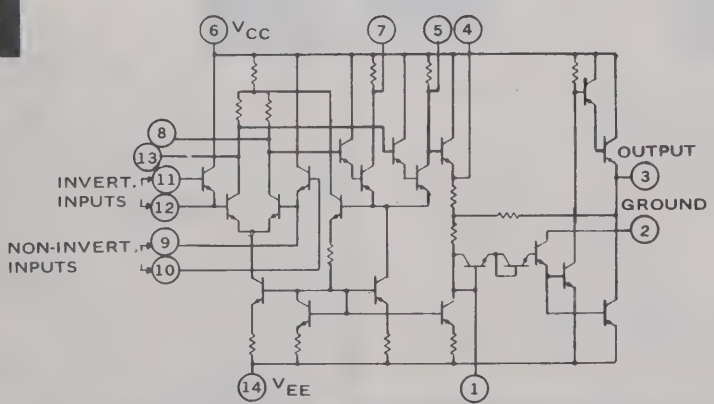

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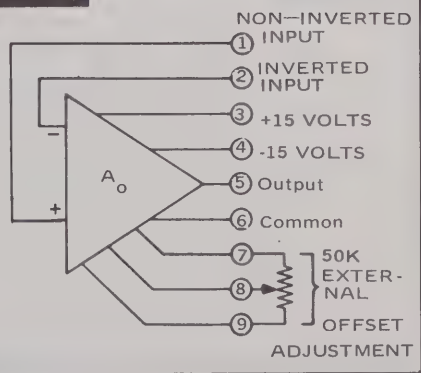
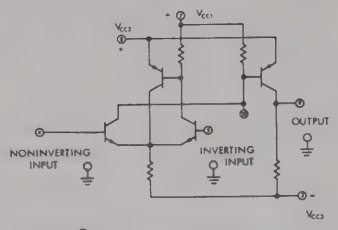
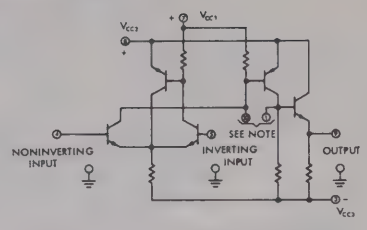


A065



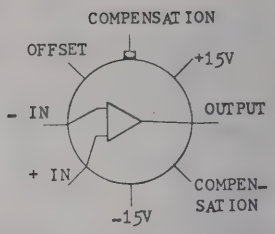
NOTES: PIN ⑫ IS FOR FREQUENCY SHAPING
PINS ①, ②, AND ⑥ — NO INTERNAL CONNECTION

A066

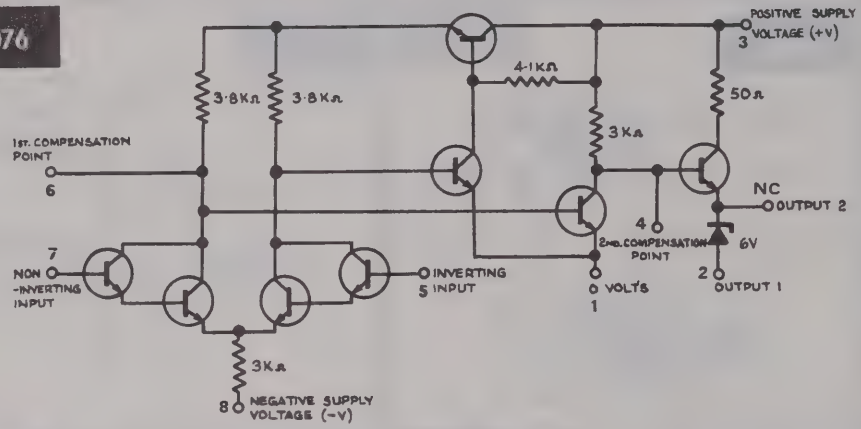


NOTES: PINS ⑩ AND ① ARE FOR FREQUENCY SHAPING
PINS ② AND ⑥ — NO INTERNAL CONNECTION

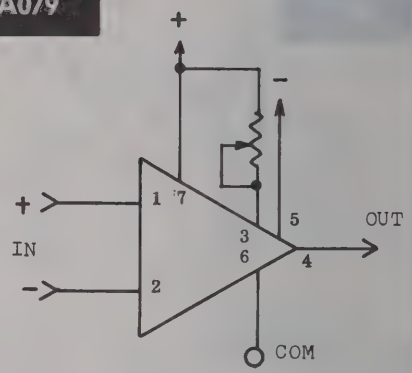
A071



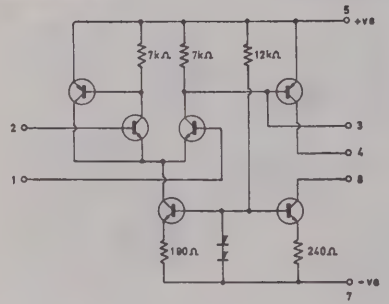
A076



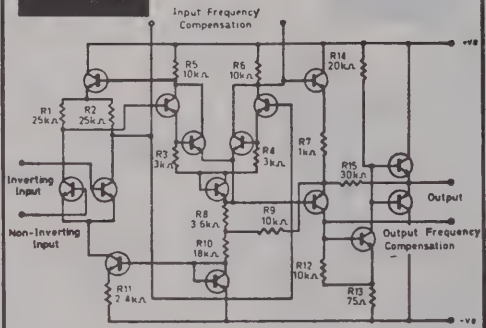
A079



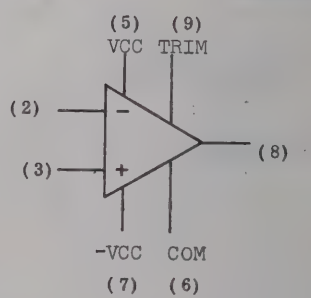
A080



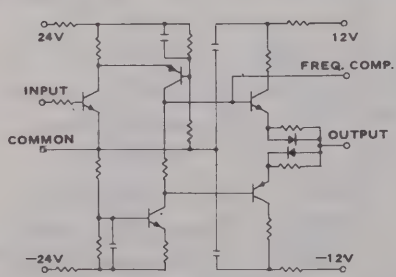
A081



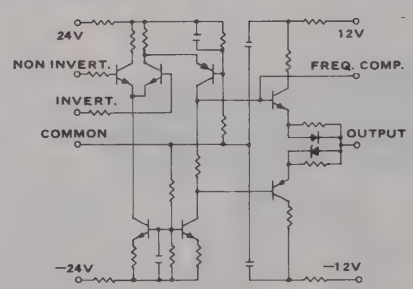
A082



A085

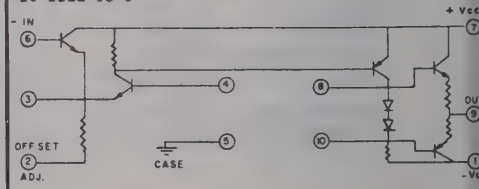


A086

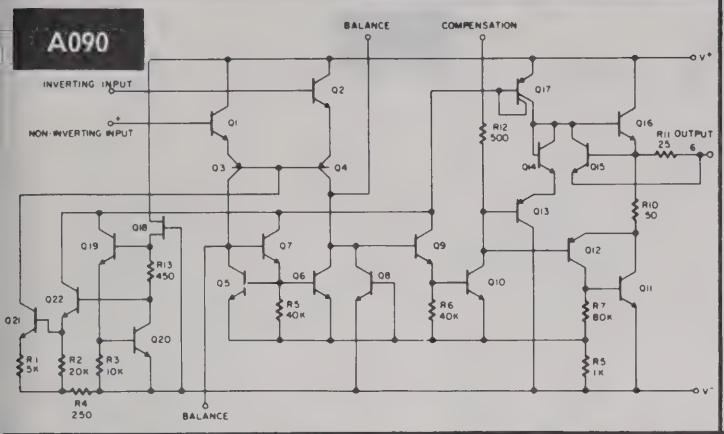


A088

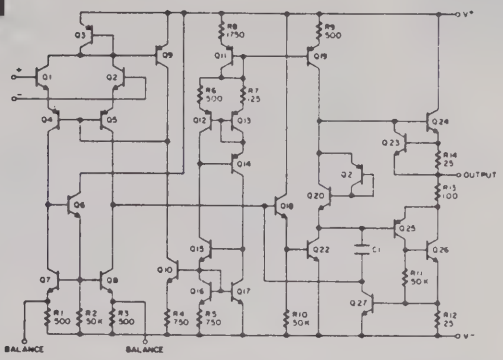
10 lead TO-5



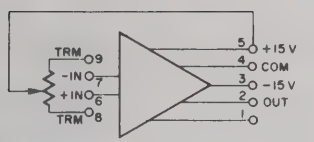
A090



A092

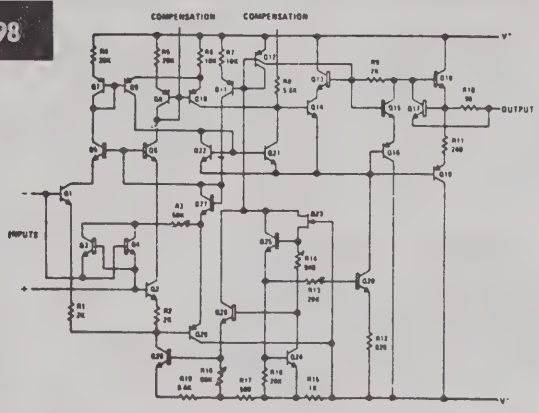


A097

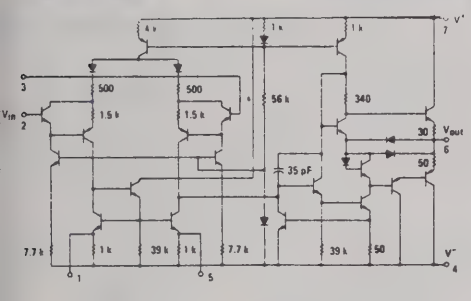


Balance potentiometer optional. If desired use 2 kΩ or any value between 500 Ω and 5 kΩ.

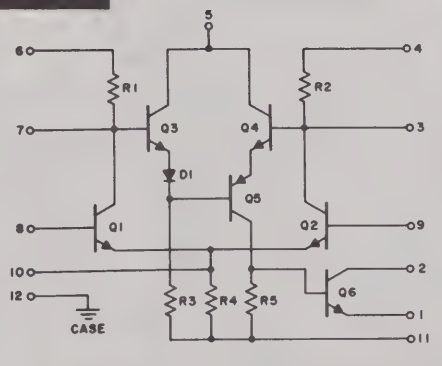
A098



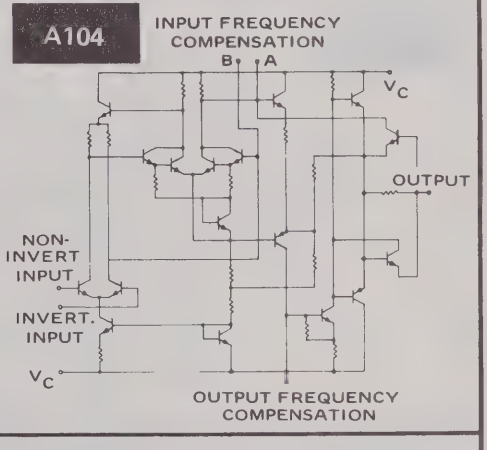
A100



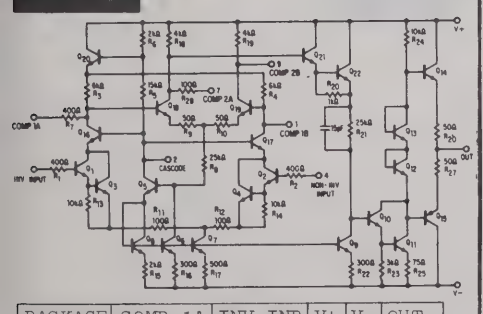
A103



A104

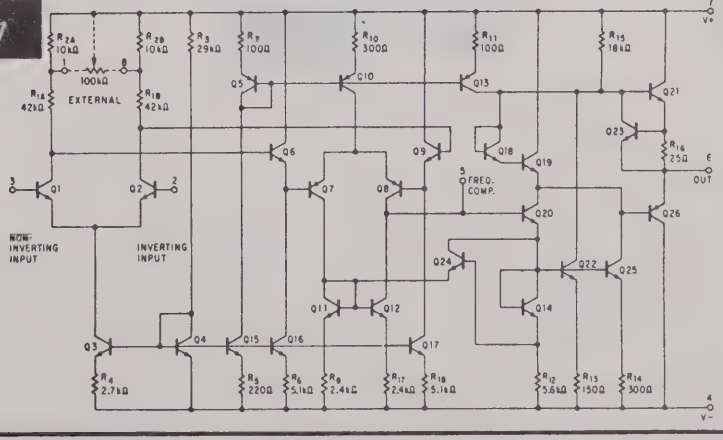


A106

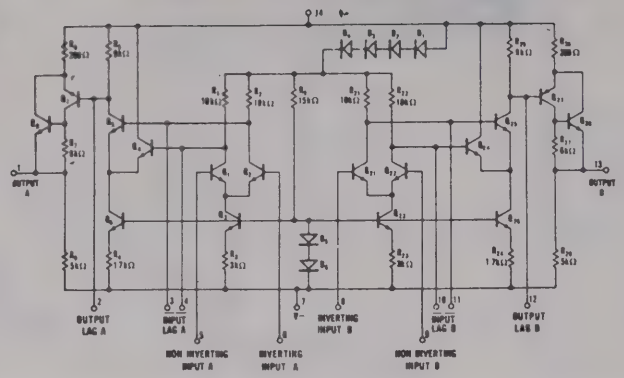


PACKAGE	COMP 1A	INV INP	V+	V-	OUT
TO100	10	3	8	5	6
MP151	1	4	13	10	11

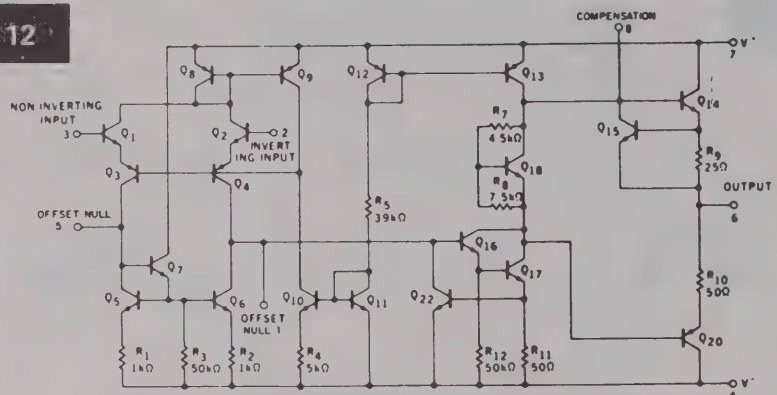
A107



A109

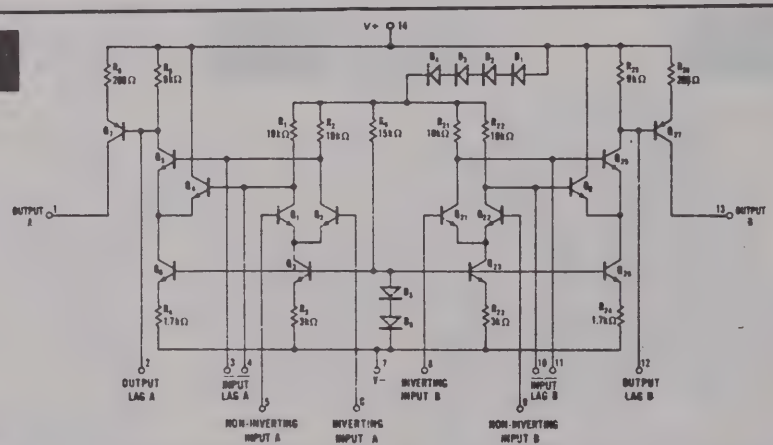


A112

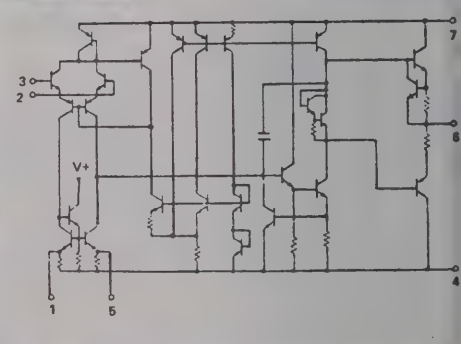


	PKG	CKT	V+	V-	INPUT INV	INPUT NON INV	OFFSET NULL 1	OFFSET NULL 2	OUT	COMP
A112a		1	7	4	2	3	5	1	6	8
A112b	CN or MP	1	7	4	2	3	1	5	6	8
	MP	1	11	6	4	5	3	9	10	12

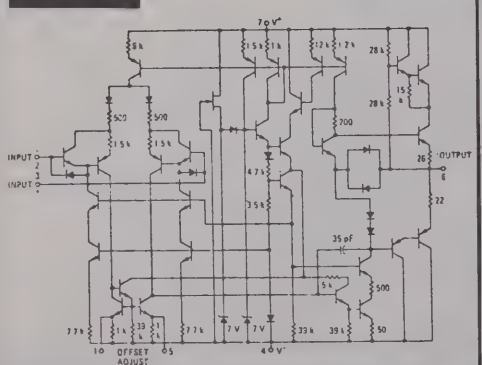
A113



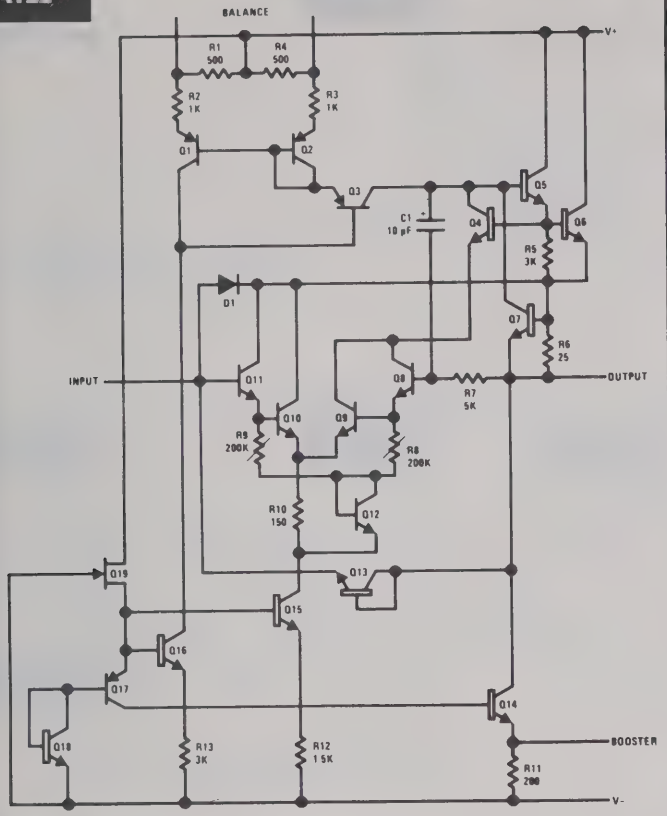
A117



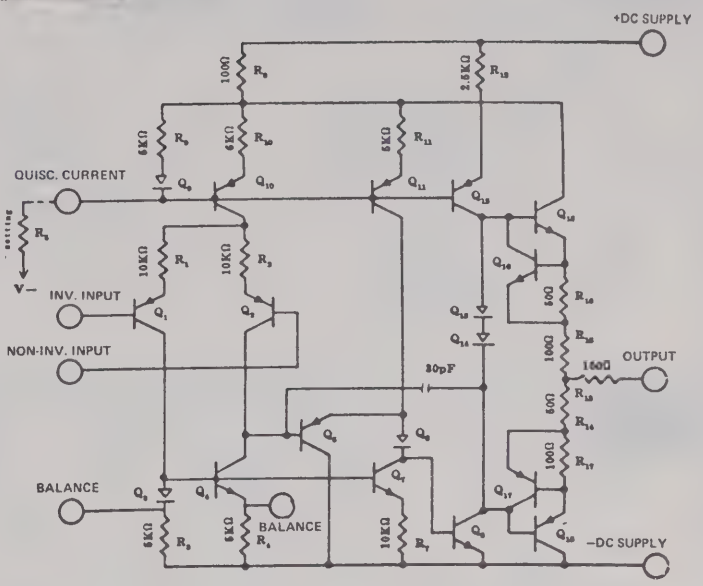
A118



A122

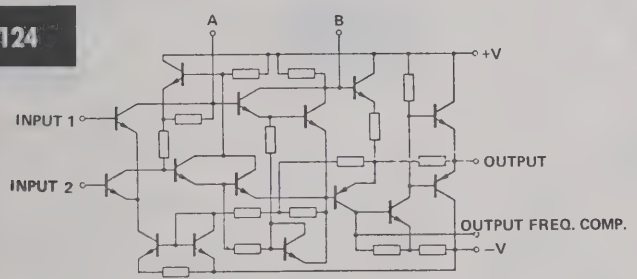


A123



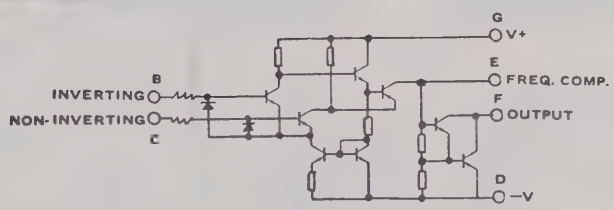
	PKG.	CKT	BAL 1	INV. IN	NON INV. IN	NEG SUP	BAL 2	OUT	POS SUP	QUIESC. CURRENT
A123	TO99	1	1	2	3	4	5	6	7	8
	MP	1		1	2	8		3	4	14
		2		6	7	8		9	4	5
		3		11	12	8		13	4	10
A123a	TO99	1	5	2	3	4	1	6	7	8
A123b	CN, MP	1	1	2	3	4	5	6	7	8

A124



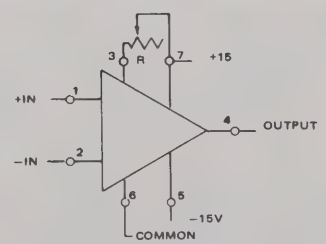
	IN 1	IN 2	A	B	+V	OUT	OUT FREQ. COMP.	-V
A124	2	3	1	8	7	6	5	4
A124a	3	4	2	9	8	7	6	5

A125

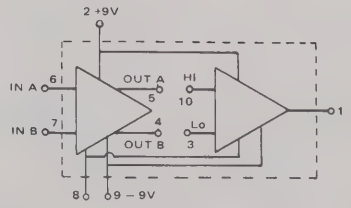


	PKG	B	C	D	E	F	G
A125		4	3	6	8	7	2
A125a	FP	5	3	6	10	8	1
	MP	3	2	4	6	5	1
	CN	4	3	6	8	7	2

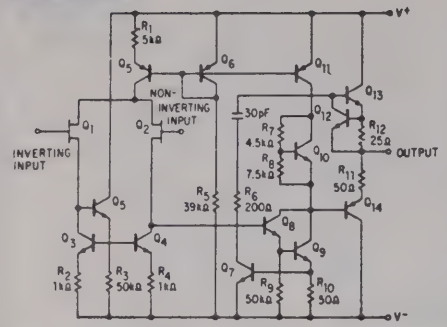
A129



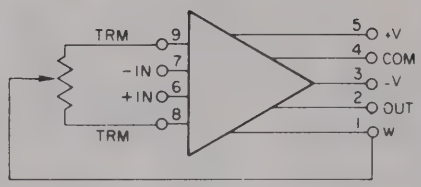
A130



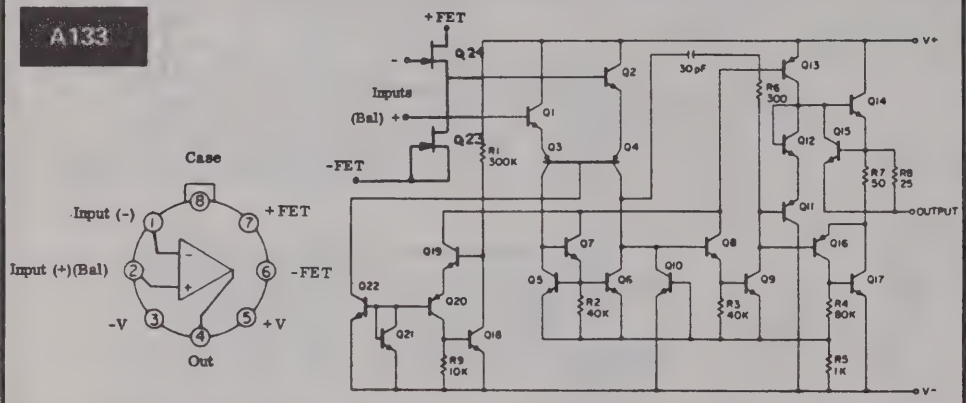
A131



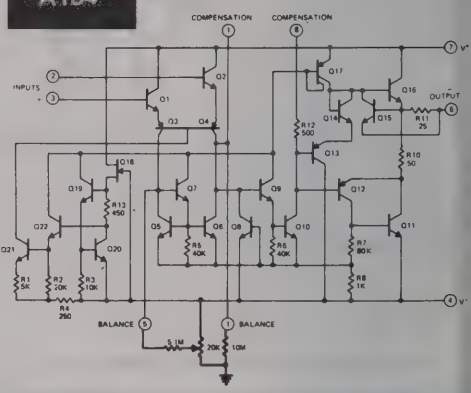
A132



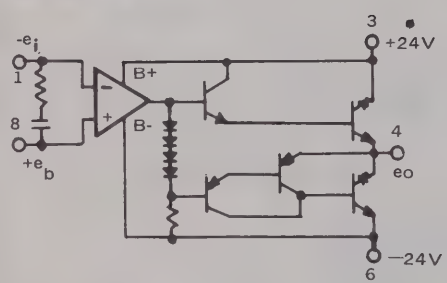
A133



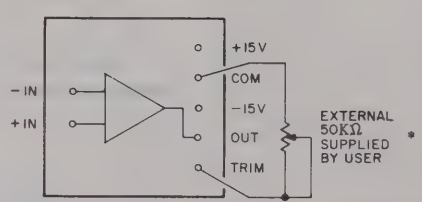
A134



A135

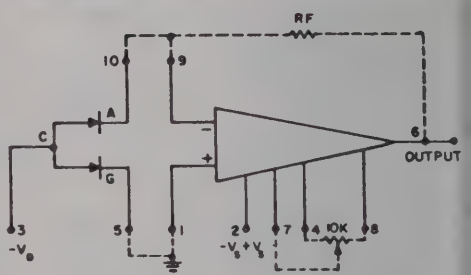


A136

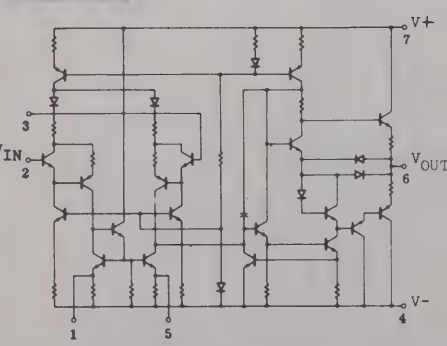


*- A136a HAS 1kΩ SUPPLIED

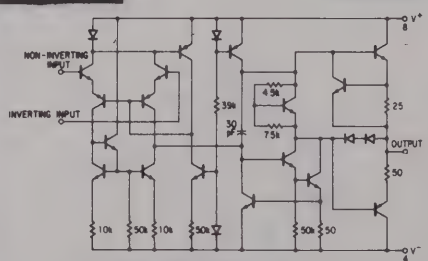
A137



A139

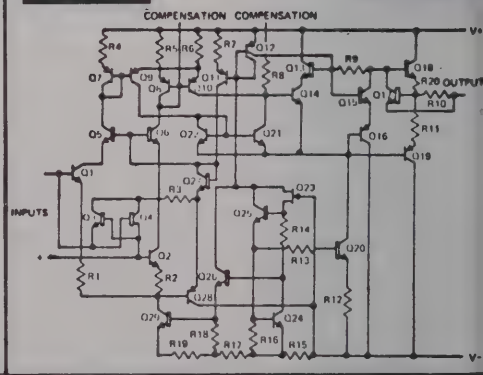


A140

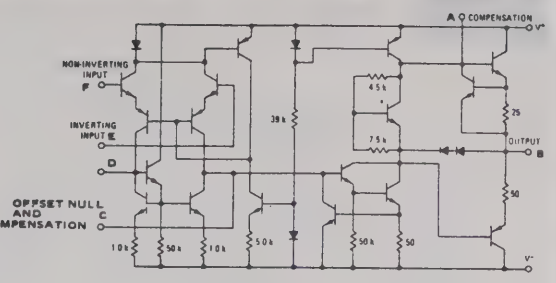


	CKT	INV INP	NON INV INP	OUTPUT	V+	V-
A140	1	2	3	1	8	4
	2	6	5	7		
A140a	1	5	6	2	14	7
	2	9	8	12		

A146



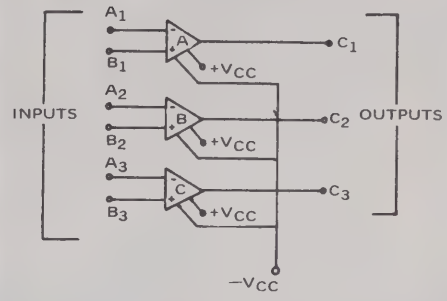
A148



	PKG	A	B	C	D	E	F	V+	V-
A148	CN	8	6	1	5	2	3	7	4
A148a	FC	H	F	A	E	B	C	G	D
	FP	9	7	2	6	3	4	8	5

A149

	CKT	A	B	C	+VCC	-VCC
A149	1	13	14	2	12	8
	2	4	5	11	3	
	3	9	10	7	8	
A149a	1	1	2	12	13	4
	2	7	6	10	9	



A150

	PKG	COMP	INV IN	NON-INV IN	OFFSET NULL COMP N1	OFFSET NULL N2	OUT	V+	V-
A150	MP/FP	12	4	5	3	9	10	11	6
	TO99/MP	8	2	3	1	5	6	7	4

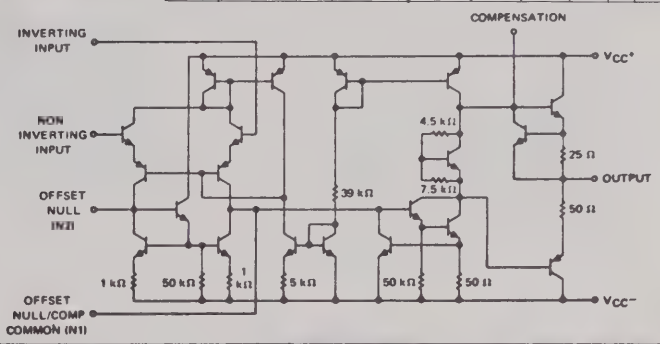
A151

NOTE: N1 and N2 ARE OFFSET NULL.

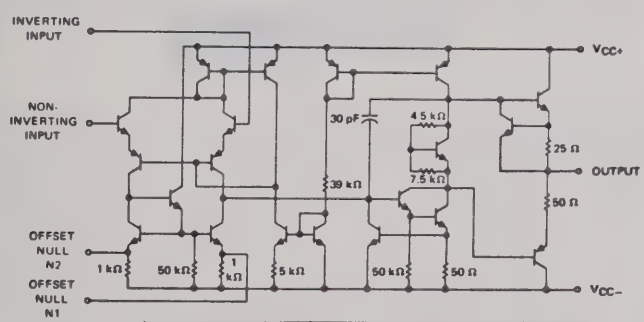
	PKG	VCC+	OUT	N2	N1	INV IN	NON-INV IN	VCC-
A151	MP48	7	6	5	1	2	3	4

A153

	PKG	INV IN	NON-INV IN	OFFSET NULL COMP N1	OFFSET NULL N2	COMP	OUT	V+	V-
A153	MP/FP	4	5	3	9	12	10	11	6
	TO99/MP	2	3	1	5	8	6	7	4

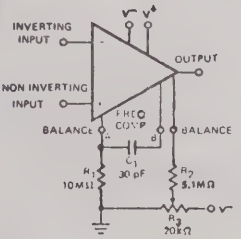


A154

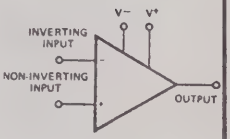


	PKG	CKT	INV IN	NON-INV IN	OFFSET NULL N1	OFFSET NULL N2	OUT	V+	V-
A154	MP/FP	1	4	5	3	9	10	11	6
	TO99/MP	1	2	3	1	5	6	7	4
A154a	MP	1	1	2	14	3	12	1	4
		2	7	6	8	5	10	2	4

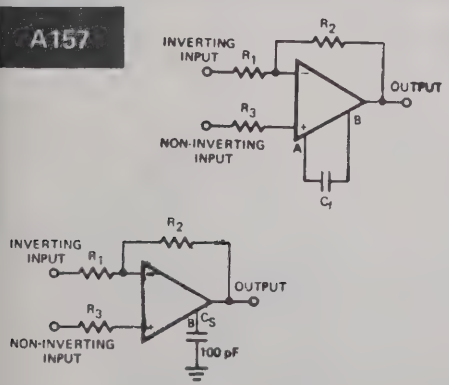
A155



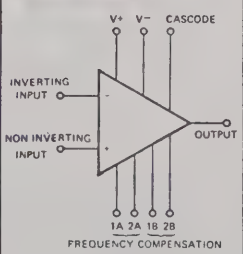
A156



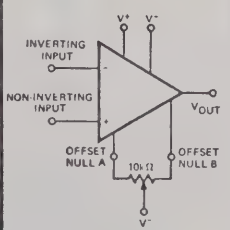
A157



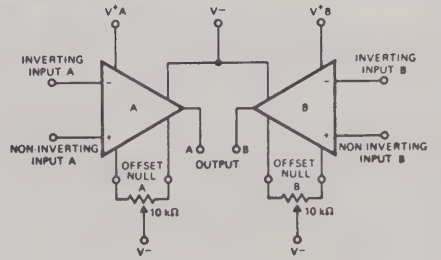
A158



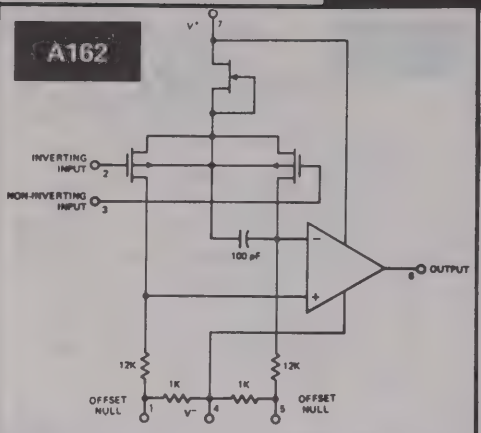
A159



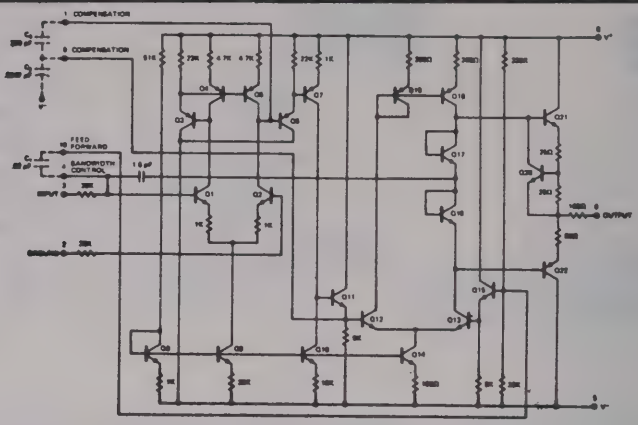
A160



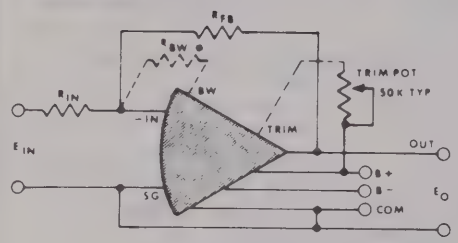
A162



A163

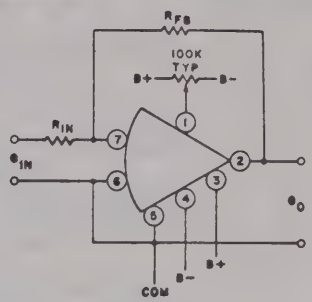


A164

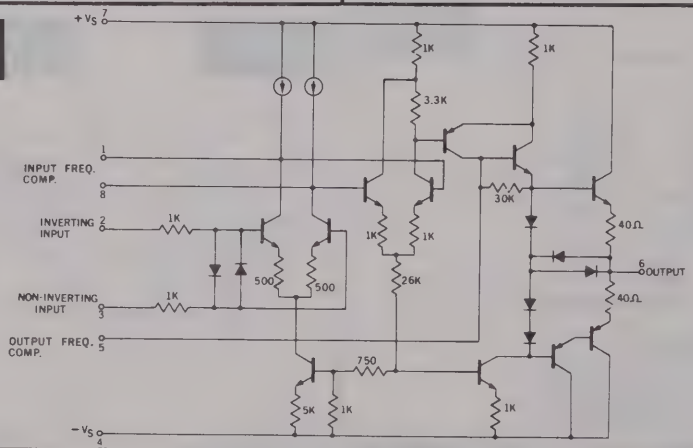


* MODEL 147A BANDWIDTH FIXED AT 20 MHz

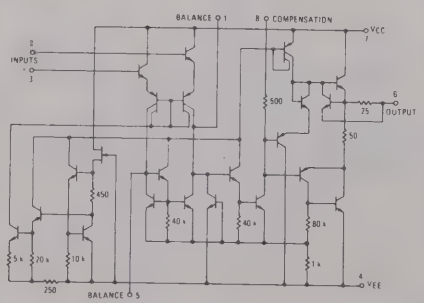
A165



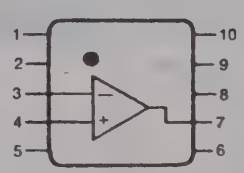
A169



A171

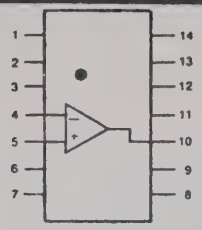


A172



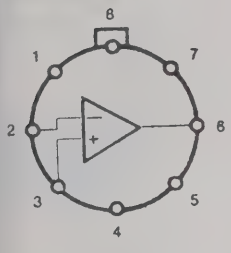
	PIN NUMBERS									
	1	2	3	4	5	6	7	8	9	10
A172	N.C.	BALANCE	INV. INP	NON INV. INP	V-	BALANCE	OUTP	V	N.C	N.C.
A172a	N.C.	BALANCE/ COMP	INV. INP	NON INV. INP	V-	BALANCE	OUTP	V	COMP.	N.C.
A172b	N.C.	N.C.	INV. INP	NON INV. INP	V-	N.C.	OUTP	V	N.C.	N.C.
A172c	N.C.	VOS TRIM	INV. INP	NON INV. INP	V-	COMP.	OUTP	V	VOS TRIM	N.C.
A172d	N.C.	INP. LAG	INV. INP	NON INV. INP	-VS	OUT LAG	OUT	+VS	INP. LAG	N.C.

A173



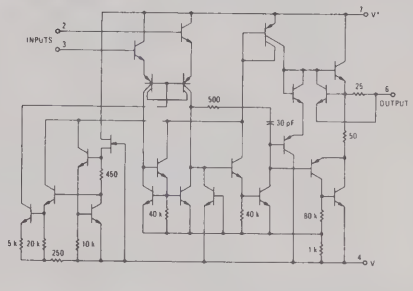
	PIN NUMBERS													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A173	N.C.	N.C.	BALANCE	INV.INP	NON INV.INP	V-	N.C.	N.C.	BALANCE	OUTP	V+	N.C.	N.C.	N.C.
A173a	N.C.	N.C.	BALANCE/ COMP.	INV.INP	NON INV.INP	V-	N.C.	N.C.	BALANCE	OUTP	V+	COMP.	N.C.	N.C.
A173b	N.C.	N.C.	N.C.	INV.INP	NON INV.INP	V-	N.C.	N.C.	N.C.	OUTP	V+	N.C.	N.C.	N.C.
A173c	N.C.	N.C.	VOS TRIM	INV.INP	NON INV.INP	V-	N.C.	N.C.	COMP.	OUTP	V+	VOS TRIM	N.C.	N.C.
A173d	N.C.	OFF. ADJ.A	INV.INP	NON INV INP	-VS	N.C.	N.C.	N.C.	N.C.	OFF ADJ.B	OUT	+VS	INP COMP	N.C.
A173e	N.C.	OFF. ADJ.A	INV.INP	NON INV INP	-VS	N.C.	N.C.	N.C.	N.C.	OFF ADJ.B	OUT	+VS	N.C.	N.C.
A173f	N.C.	INP LAG	INV.INP	NON INV INP	-VS	N.C.	N.C.	N.C.	N.C.	OUT LAG	OUT	+VS	INP LAG	N.C.
A173g	N.C.	OFF. ADJ	GUARD	IN-	IN+	GUARD	V-	N.C.	N.C.	OUT	V+	OFF. ADJ	N.C.	N.C.

A174

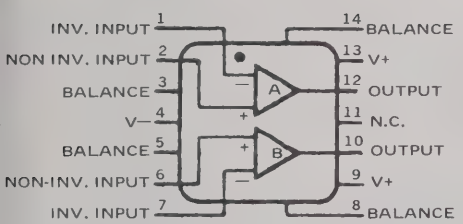


	PIN NUMBERS							
	1	2	3	4	5	6	7	8
A174	BALANCE	INV.INP	NON INV.INP	V-	BALANCE	OUTP.	V	N.C.
A174a	VOS TRIM	INV.INP	NON INV.INP	V-	COMP.	OUTP.	V	VOS TRIM
A174b	BALANCE/ COMP.	INV.INP	NON INV.INP	V-	BALANCE	OUTP.	V	COMP.
A174c	N.C.	INV.INP	NON INV.INP	V-	N.C.	OUTP.	V	N.C.
A174d	COMP.	INV.INP	NON INV INP	V-	BIAS SET	OUT	V	COMP.
A174e	INP.LAG	INV.INP	NON INV INP	-VS	OUTP LAG	OUTP	VS	INP LAG
A174f	OFF.ADJ.	IN-	IN+	V- CASE	N.C.	OUT	V+	OFF.ADJ.
A174g	BALANCE	V-	V+	-VS	BALANCE	OUT	+VS	COMP

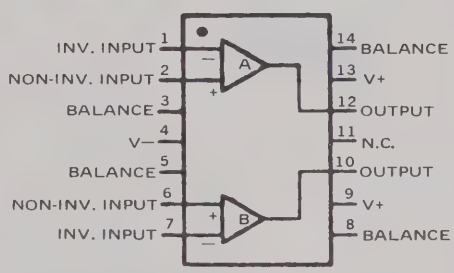
A175



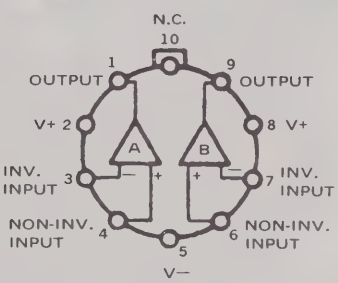
A176



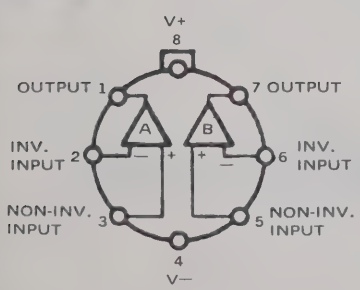
A177



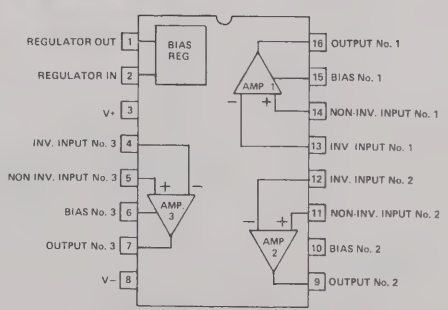
A178



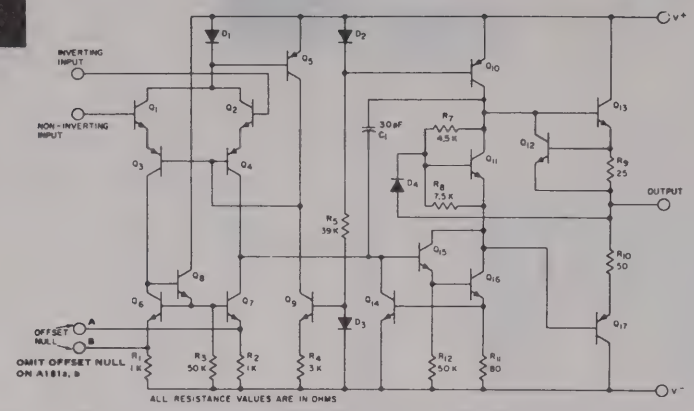
A179



A180

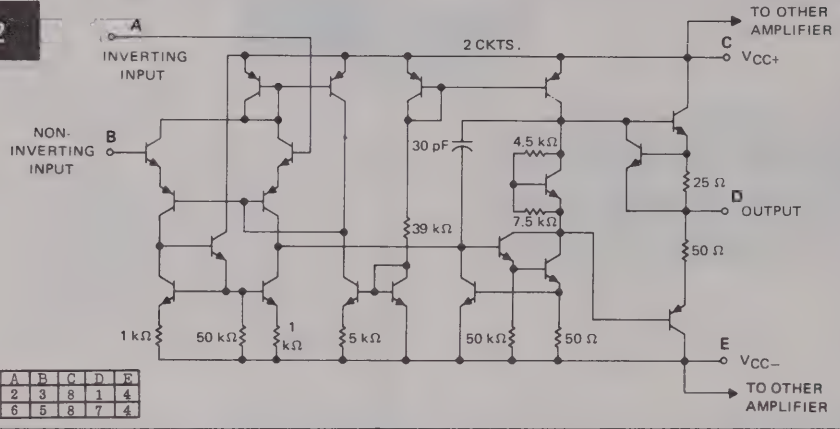


A181



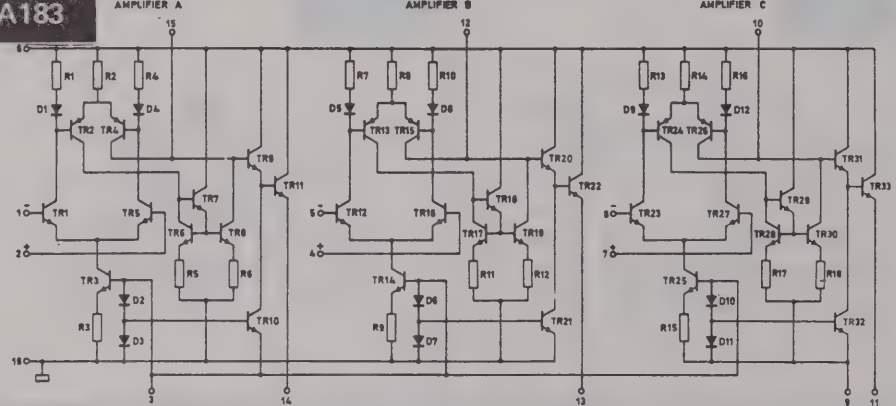
	PKG	CKT NO.	INVERT INP.	NON INV. INP.	OFFSET NULL A	OFFSET NULL B	OUTPUT	V+	V-
A181	CN	1	2	3	1	5	6	7	4
A181a	CN	1	2	3			1	8	4
		2	6	5			7	8	4
A181b	CN	1	3	4			1	8	5
		2	7	6			9	8	5
A181c	MP	1	1	2	3	5	12	13	4
		2	7	6	14	8	10	9	4
A181d	CN	1	2	3	1	5	6	7	4

A182

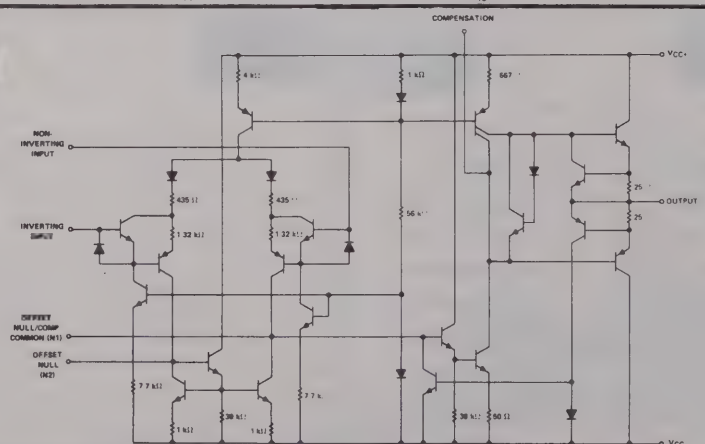


	CKT	A	B	C	D	E
A182	1	2	3	8	1	4
	2	6	5	8	7	4

A183

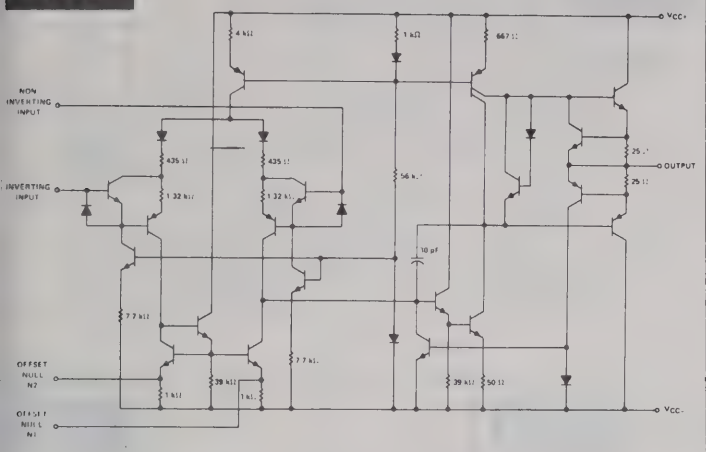


A184



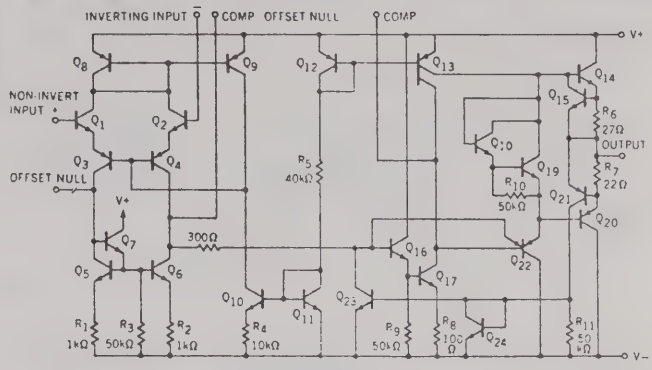
	PKG	INV IN	NON INV IN	N1	N2	COMP	OUT	V+	V-
A184	CN,MP	2	3	1	5	8	6	7	4
	FP,MP	4	5	2	9	12	10	11	7

A185



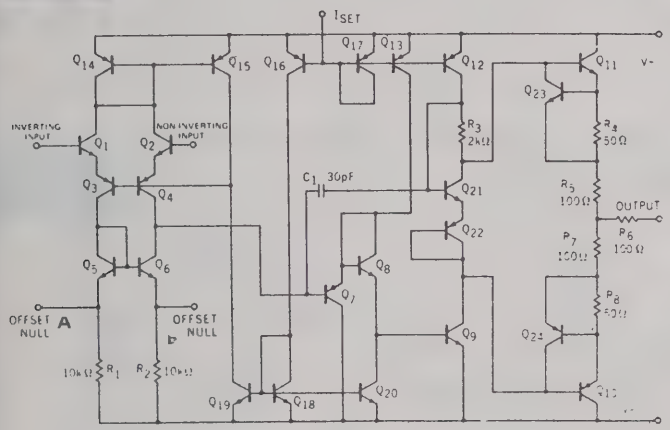
	PKG	NON INV IN	INV IN	N2	N1	OUT	V+	V-
A185	CN, MP	3	2	5	1	6	7	4
	FP, MP	5	4	9	2	10	11	7

A186



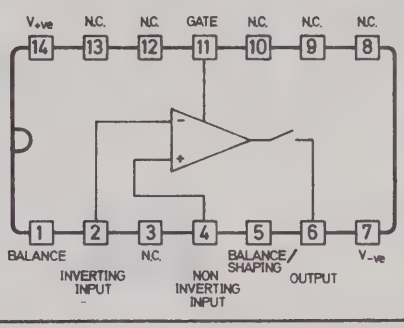
	PKG	INV. INP	NON INV. INP	OFFSET NULL	COMP. OFFSET NULL	COM	OUTPUT	V-	V+
A186	FP	3	4	6	2	9	7	5	8
A186a	FP, CN	2	3	5	1	8	6	4	7
A186b	MP	4	5	9	3	12	10	6	11

A187

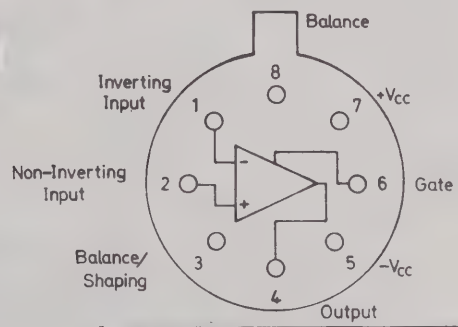


	PKG	ISET	INV. INP	NON INV. INP	OFFSET NULL A	OFFSET NULL B	OUTP.	V+	V-
A187	CN, FP	8	2	3	1	5	6	7	4
A187a	MP	12	4	5	3	9	10	11	6

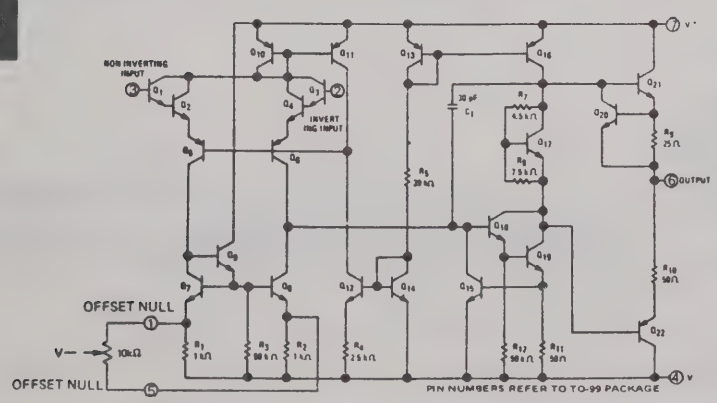
A188



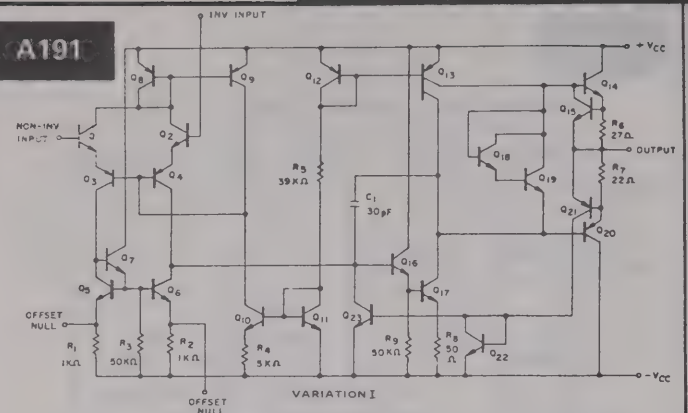
A189

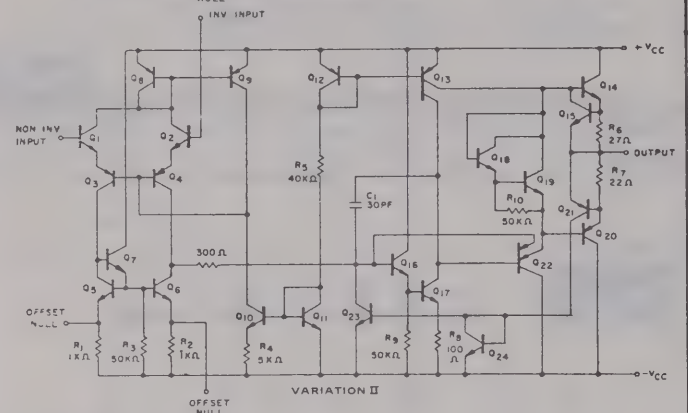


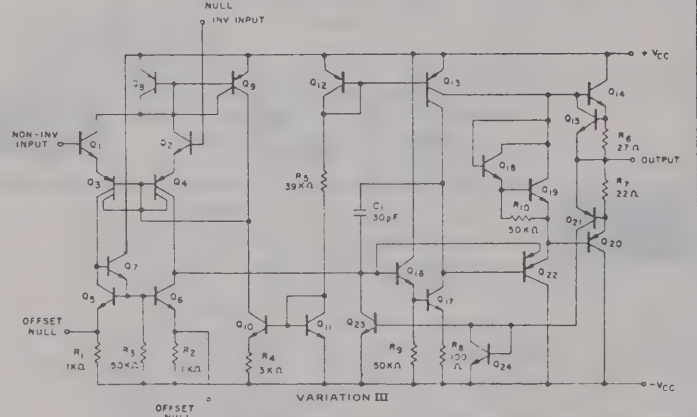
A190



A191

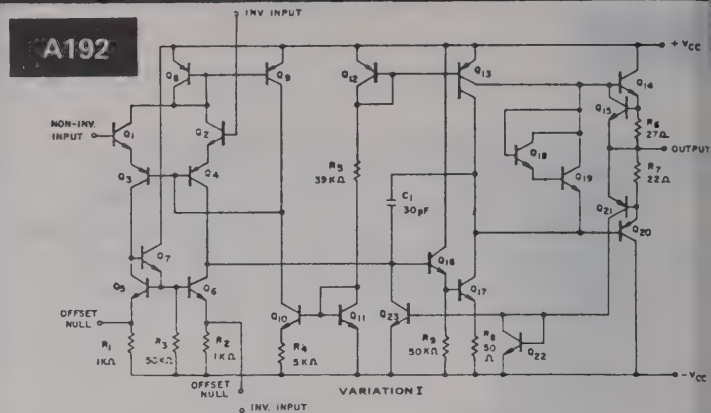


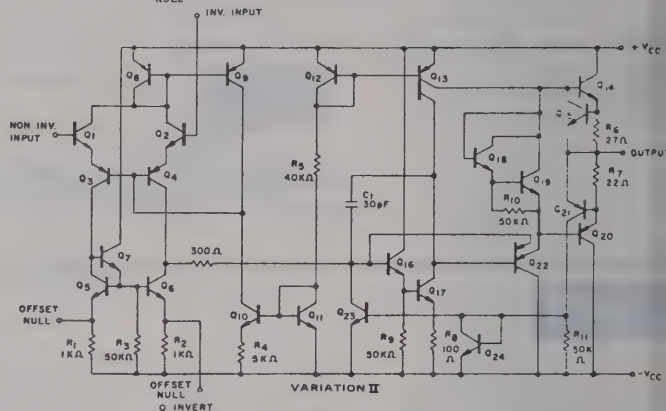


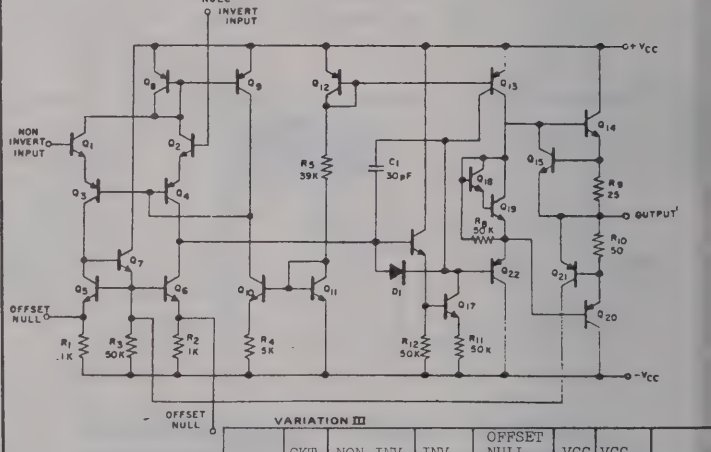


	PKG	NON INV. INPUT	INV. INPUT	OFFSET NULL 1	OFFSET NULL 2	VCC -	VCC +	OUTPUT
A191	TO5	4	3	2	6	5	8	7
	FP,MP	5	4	3	9	6	11	10
	CN	3	2	1	5	4	7	6

A192

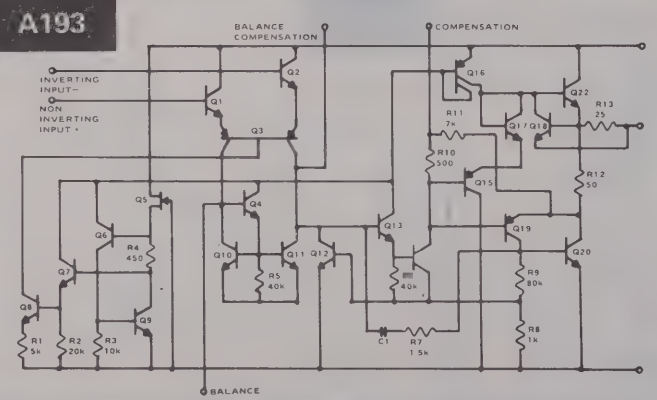






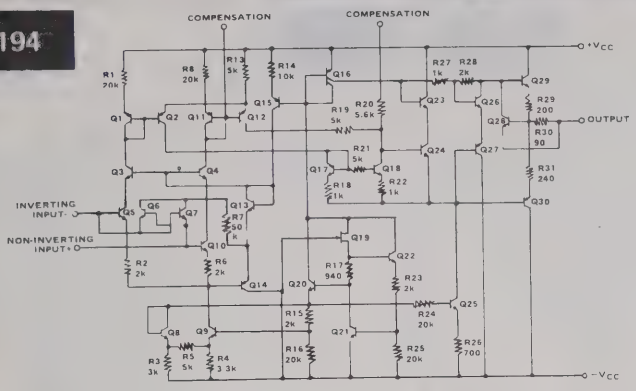
	PKG	CKT NO.	NON INV. INPUT	INV. INPUT	OFFSET NULL A	OFFSET NULL B	VCC -	VCC +	OUTPUT
A192	FP OR	1	2	1	3	5	4	9,13	12
	MP	2	6	7	14	8			10
	CN	1	4	3			2,5	8	1
		2	6	7					9

A193



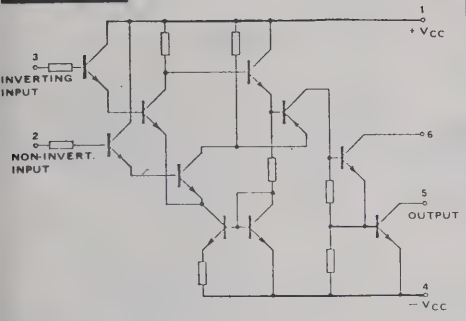
	PKG	OFFSET NULL/ COMP	NON INV INPUT	INV INPUT	VCC -	VCC +	OFFSET NULL	COMP	OUTPUT
A193	FP	2	4	3	5	8	6	9	7
	MP	3	5	4	6	11	9	12	10
	CN	1	3	2	4	7		8	6

A194

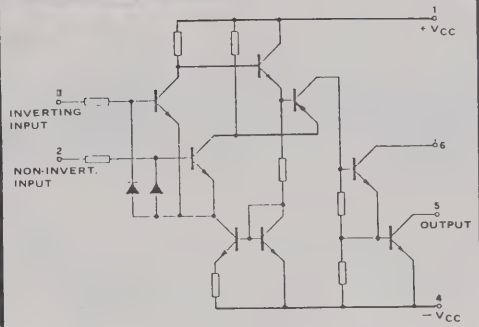


	PKG	GUARD 1	GUARD 2	NON INV INPUT	INV INPUT	COMP 1	COMP 2	VCC +	VCC -	OUTPUT
A194	FP	2	5	4	3	10	9	8	6	7
	MP	3	6	5	4	2	12	11	7	10
	CN			3	2	8	1	7	4	6

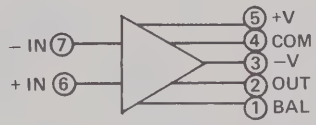
A195



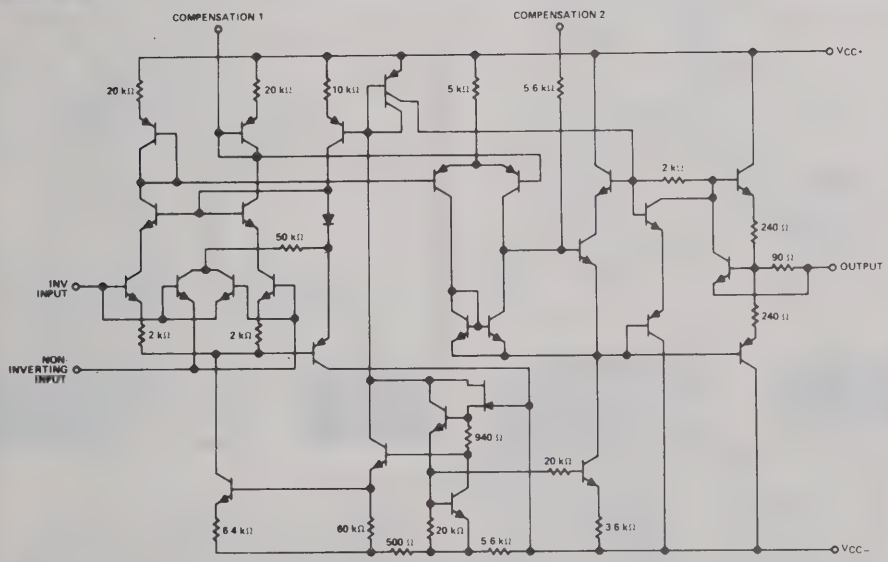
A196



A197

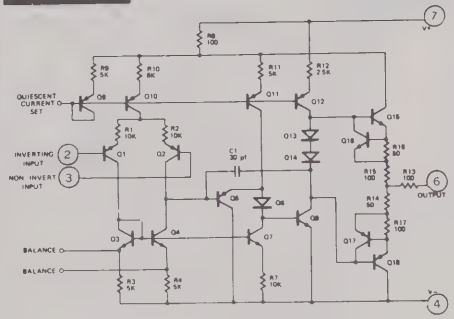


A198

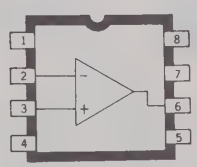


	PKG	INV INPUT	NON INV INPUT	COMP 1	COMP 2	OUTPUT	VCC+	VCC-
A198	MP	4	5	2	12	10	11	7
	CN, MP	2	3	1	8	6	7	4
	FP	3	4	10	9	7	8	6

A199

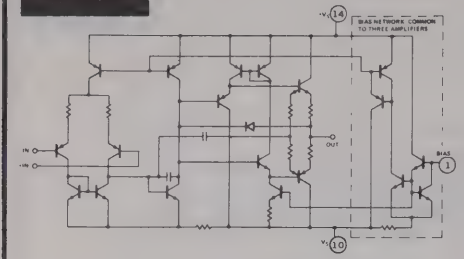


A200



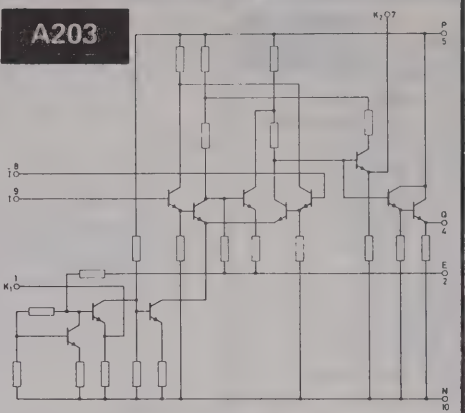
	PIN NUMBERS 1	2	3	4	5	6	7	8
A200	OFF ADJ.A	INV INP	NON INV INP	-VS	OFF ADJ.B	OUT	+VS	EXT COMP
A200a	OFF ADJ.A	INV INP	NON INV INP	-VS	OFF ADJ.B	OUT	+VS	N.C.
A200b	INP LAG	INV INP	NON INV INP	-VS	OFF ADJ.B	OUTP LAG	+VS	INP LAG

A201

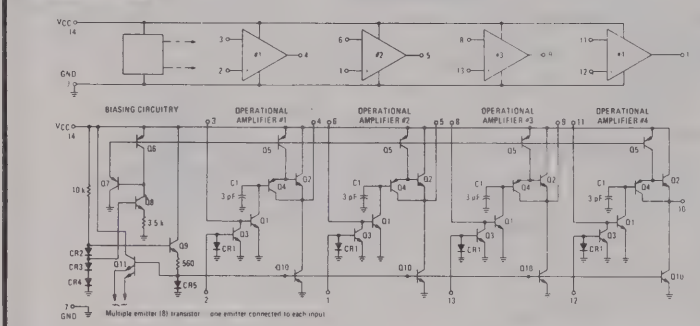


	CKT	IN +	IN −	OUT
A201	1	12	13	2
	2	4	3	11
	3	5	6	9

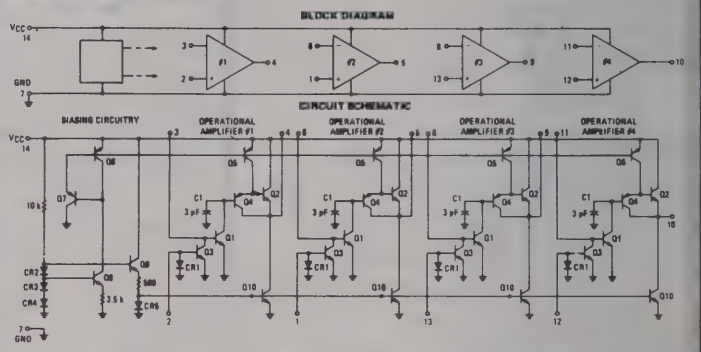
A203



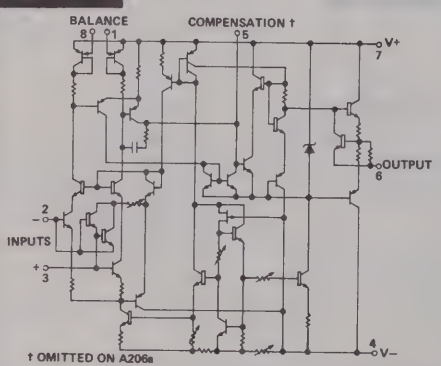
A204


BIASING CIRCUITRY
OPERATIONAL AMPLIFIER #1
OPERATIONAL AMPLIFIER #2
OPERATIONAL AMPLIFIER #3
OPERATIONAL AMPLIFIER #4
Multiple emitter (8) transistor - one emitter connected to each input

A205



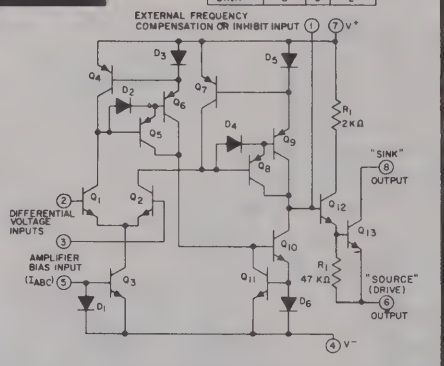
A206



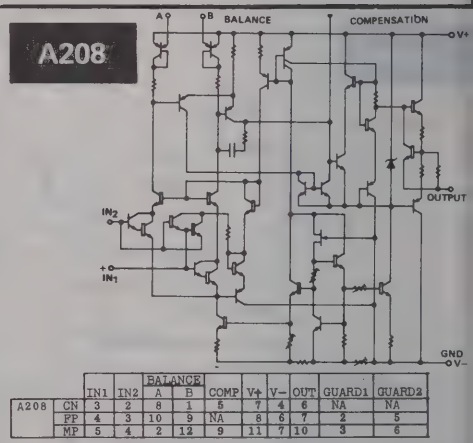
† OMITTED ON A206a

A207

OUTPUT MODE	OUTPUT TERM	INPUTS INV	INPUTS NON-INV
"SOURCE"	6	2	3
"SINK"	8	3	2



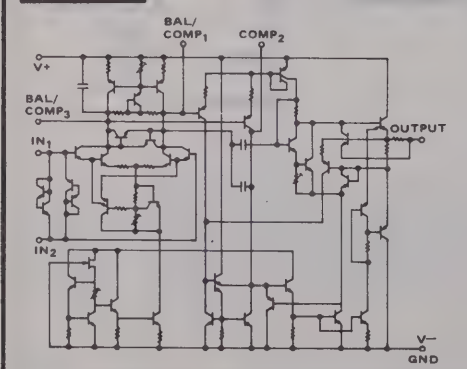
A208



		IN1	IN2	BALANCE A	BALANCE B	COMP	V+	V−	OUT	GUARD1	GUARD2
A208	CN	3	2	8	1	5	7	4	6	NA	NA
	PP	4	3	10	9	NA	8	6	7	2	5
	MP	5	4	2	12	9	11	7	10	3	6

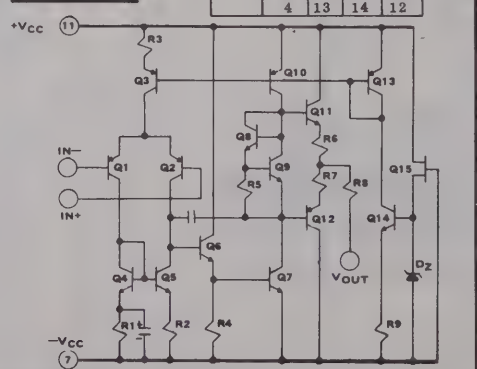
A209

		BAL/COMP1	COMP2	BAL/COMP3	IN1	IN2	V+	V−	OUT
A209	CN	1	8	5	2	3	7	4	6
	PP	1	9	6	3	4	8	5	7
	MP	3	12	9	4	5	11	6	10



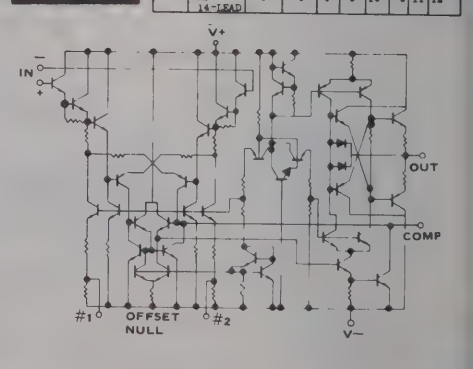
A210

	CKT	IN	IN	OUT
A210	1	2	1	3
	2	5	6	4
	3	9	8	10
	4	13	14	12



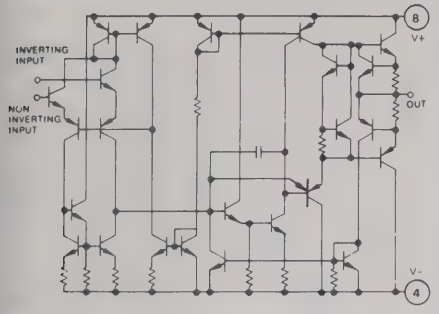
A211

	PKG	OFFSET NULL #1	OFFSET NULL #2	IN−	IN+	OUT	V−	V+	COMP
A211	CN	1	5	2	3	6	4	7	8
	MP 8-LEAD	1	5	2	3	6	4	7	8
	MP 14-LEAD	3	9	4	5	10	6	11	13

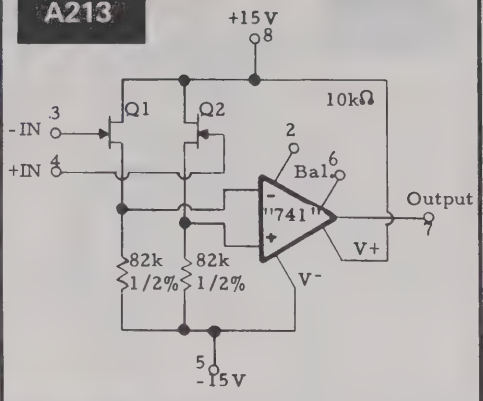


A212

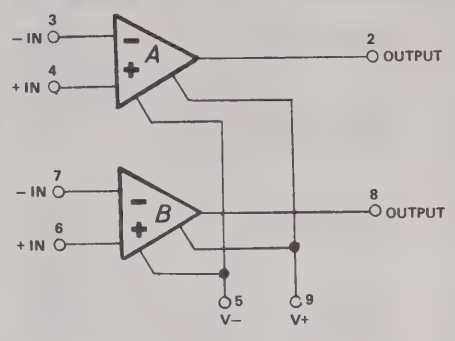
	CKT	INV IN	NON INV IN	OUT
A212	1	1	3	2
	2	5	6	7



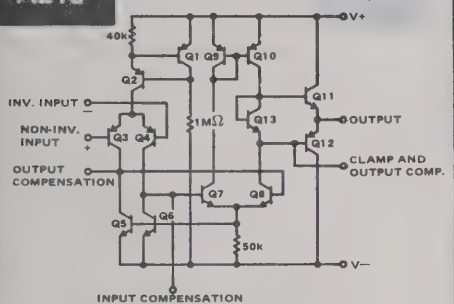
A213



A214



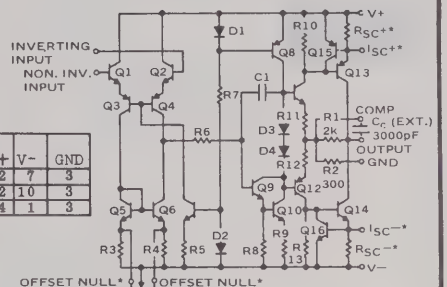
A215



	PKG	INP	NON INV INP	INP COMP	OUTP COMP	CLAMP and OUTP COMP	OUTP	V+	V-
A215	CN	4	2	5	1	10	6	9	3
	FP	3	1	4	2	5	7	8	6
	MP	1	14	2	11	5	7	9	3

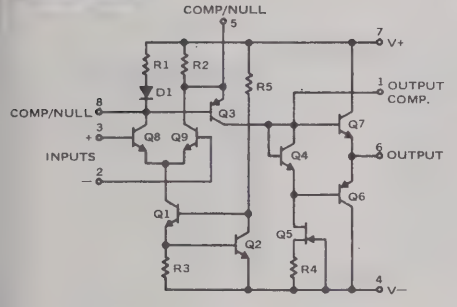
A216

	PKG	INV INP	NON INV INP	OFFSET NULL 1	OFFSET NULL 2	ISC +	ISC -	COMP	OUTP	V+	V-	GND
A216	TO3	5	6			1	8	4	CASE	2	7	3
	TO8	5	6	7	8	1	9	2	11	12	10	3
	MP	7	8					5	6	4	1	3

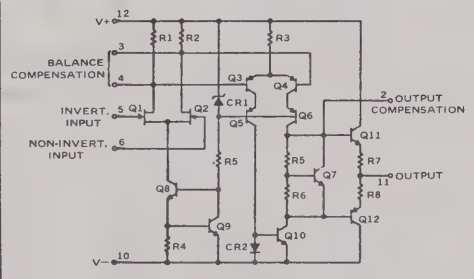


*RSC EXTERNAL ON TO-8 AND TO-3 PACKAGES.
RSC INTERNAL ON "J" PACKAGE.
OFFSET NULL CONNECTIONS AVAILABLE ONLY ON TO-8 "G" PACKAGE.

A217

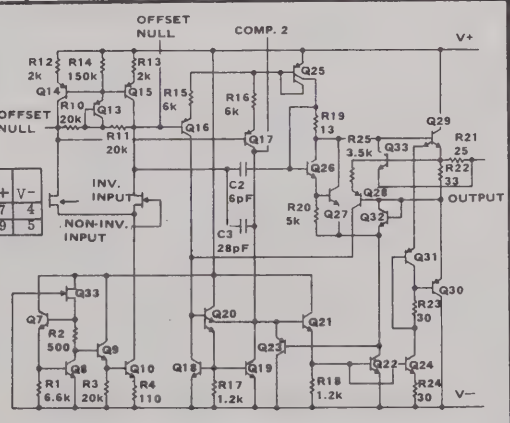


A218

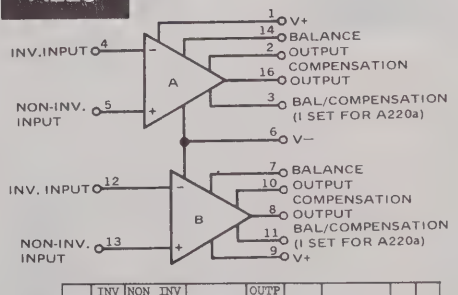


A219

	PKG	INV INP	NON INV INP	OFFSET 1	NULL 2	COMP	OUTP	V+	V-
A219	CN	2	3	1	5	8	6	7	4
	FP	3	12	6	10		8	9	5

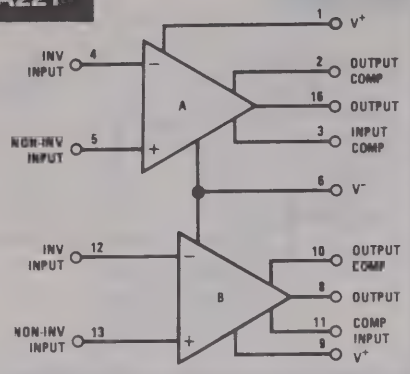


A220



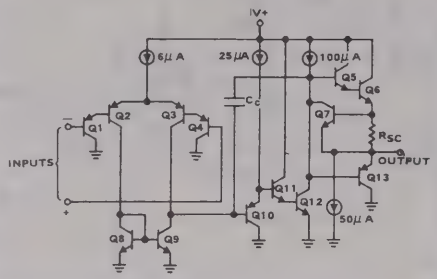
	CKT	INV INP	NON INV INP	BALANCE	OUTP COMP	OUTP	BAL/COMP	V+	V-
A220	1	4	5	14	2	16	3	1	6
	2	12	13	7	10	8	11	9	
A220a	1	4	5	14	3	16	2		6
	2	12	13	7	11	8	10	9	

A221

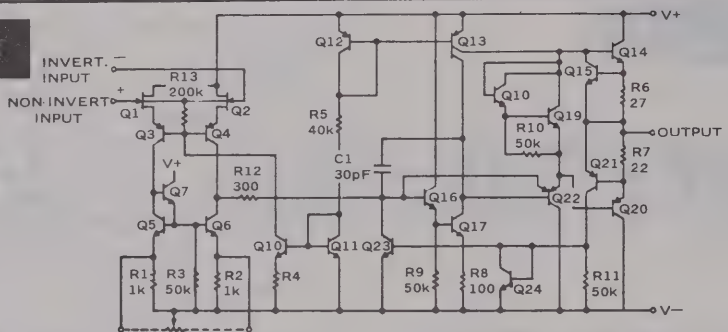


A222

	CKT	INPUTS +	INPUTS −	OUTP	V+	GND
A222	1	3	2	1	4	11
	2	5	6	7		
	3	10	9	8		
	4	12	13	14		

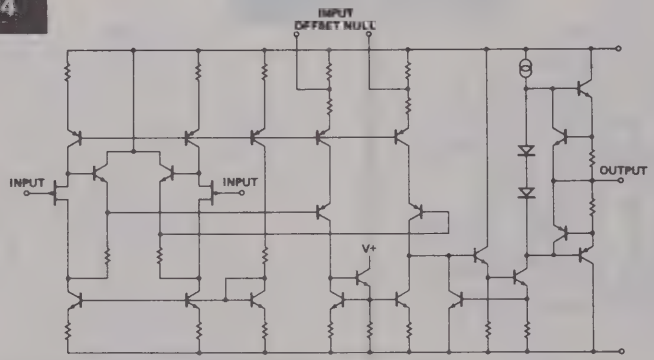


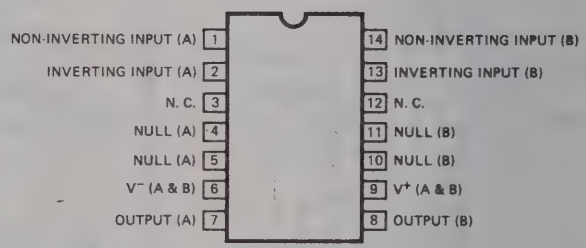
A223



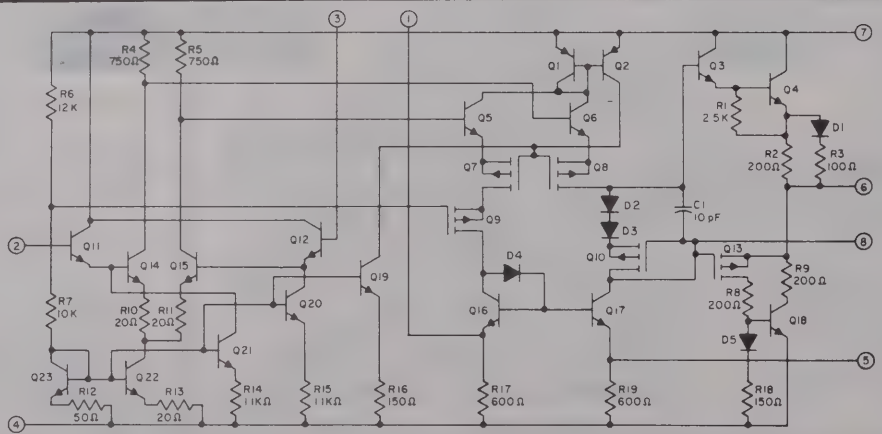
PKG		INV INP	NON INV INP	OFFSET NULL 1	OFFSET NULL 2	OUTP	V+	V−
A223	CN	2	3	1	5	6	7	4
	FP	10	1	4	7	5	6	3
	MP	3	12	6	10	8	9	5

A224

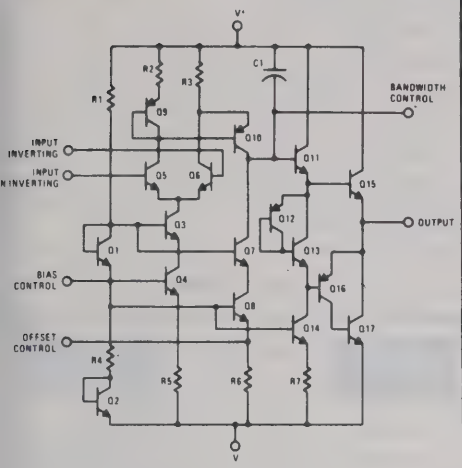


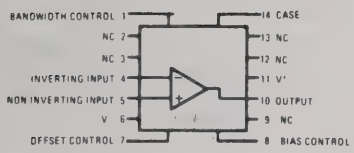


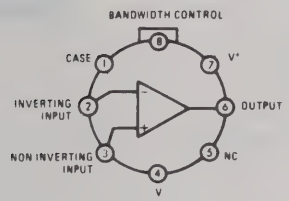
A225



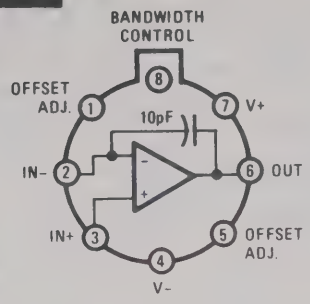
A226



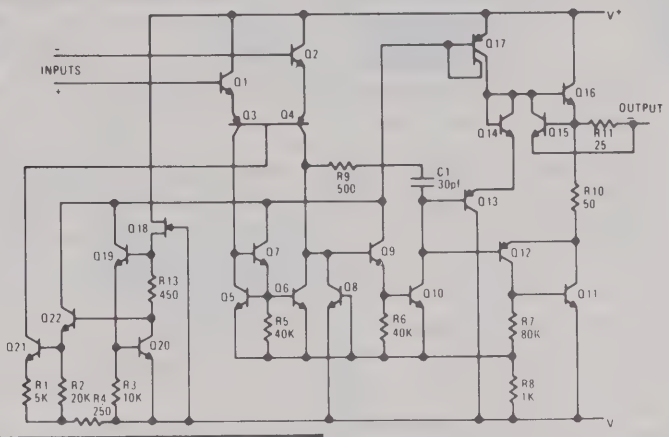




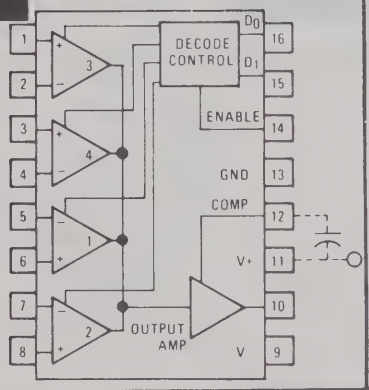
A228

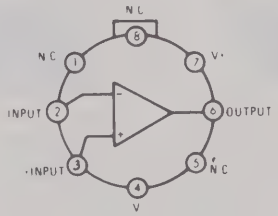


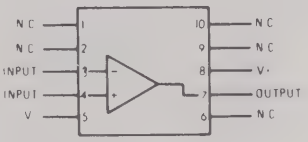
A229



A230

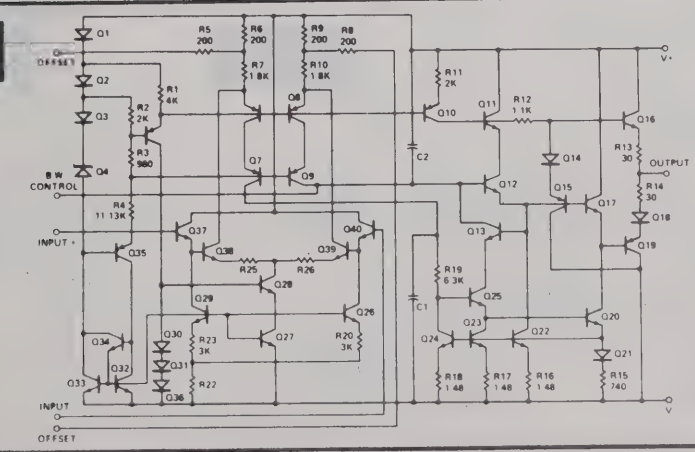


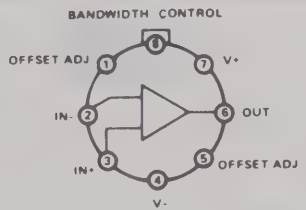


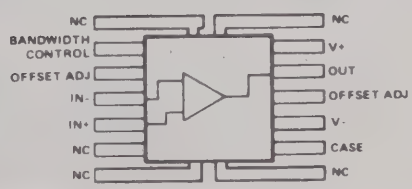


NOTE 1 V- connected to case

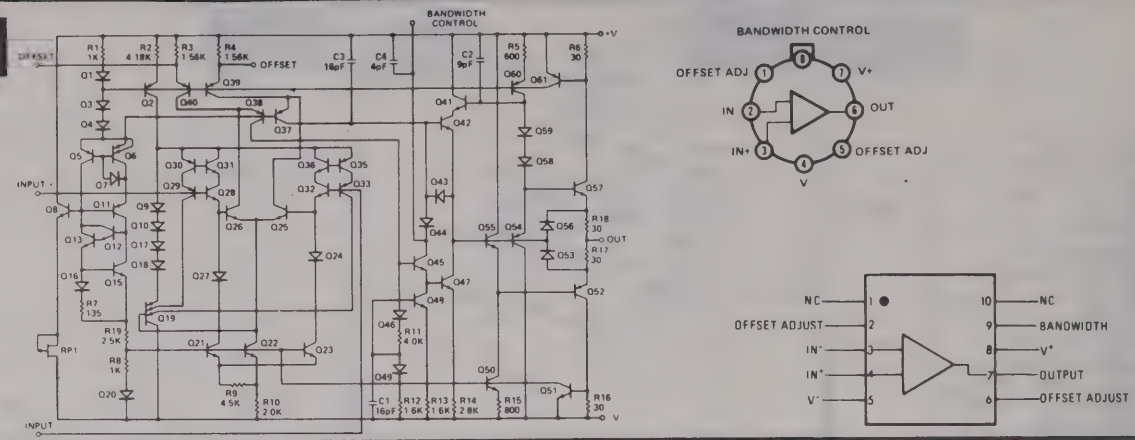
A231



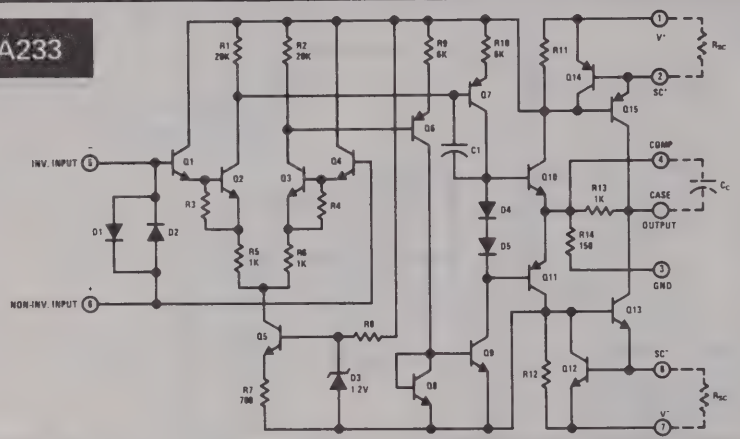




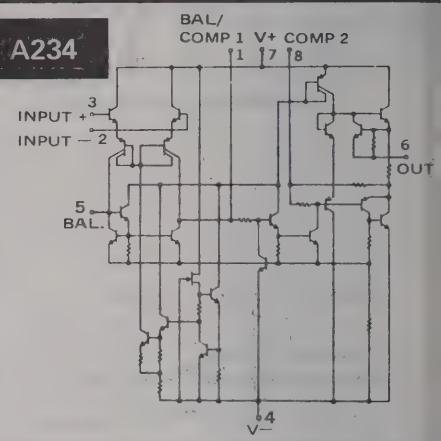
A232



A233

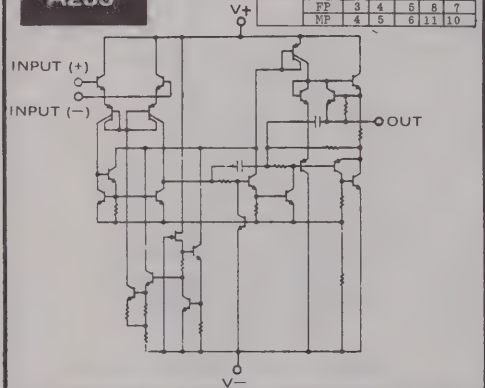


A234

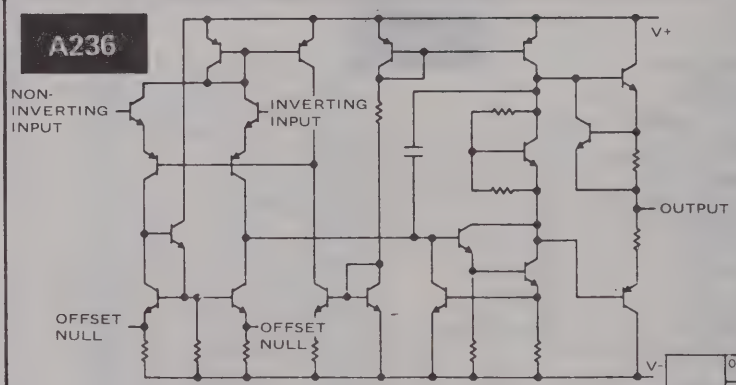


A235

A235	INPUTS		V-	V+	OUT
PKG	-	+			
CN	2	3	4	7	6
FP	3	4	5	8	7
MP	4	5	6	11	10

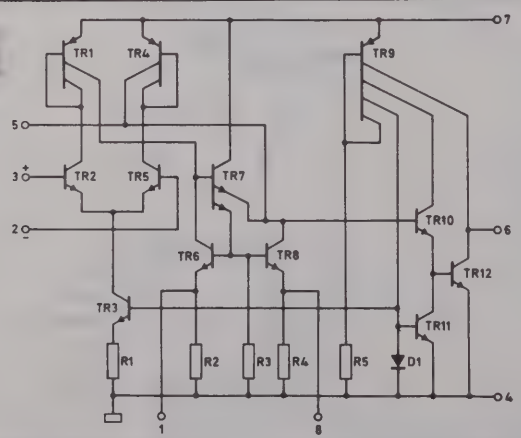


A236



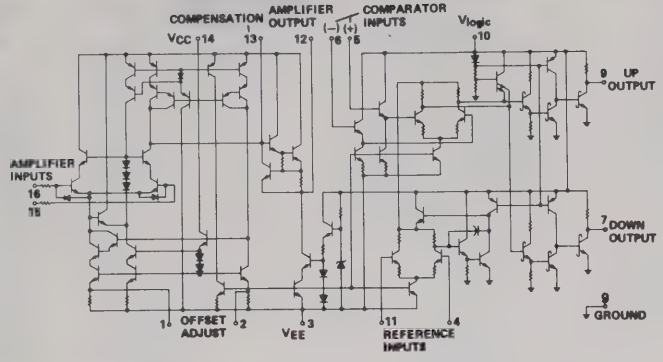
A236	OFF.	NULL	INV IN	NON INV IN	V-	V+	OUT
PKG	1	2					
CN/MP	1	5	2	3	4	7	6
FP	2	6	3	4	5	8	7
MF	3	9	4	5	6	11	10

A237

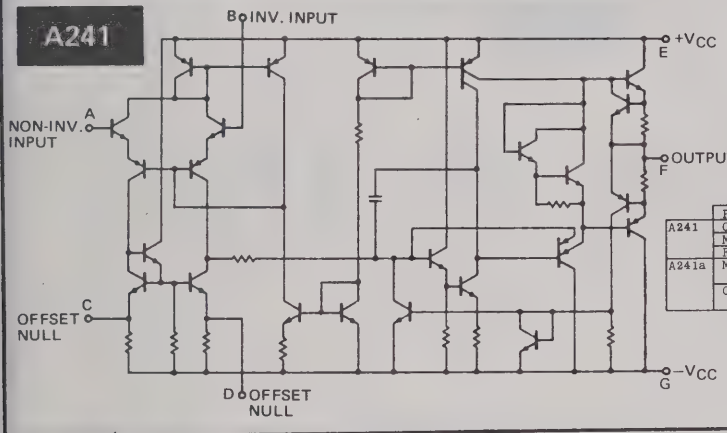


1. Balance
2. Inverting input
3. Non -inverting input
4. Negative supply (V_N)
5. Frequency compensation
6. Output
7. Positive supply (Vp)
8. Balance

A238

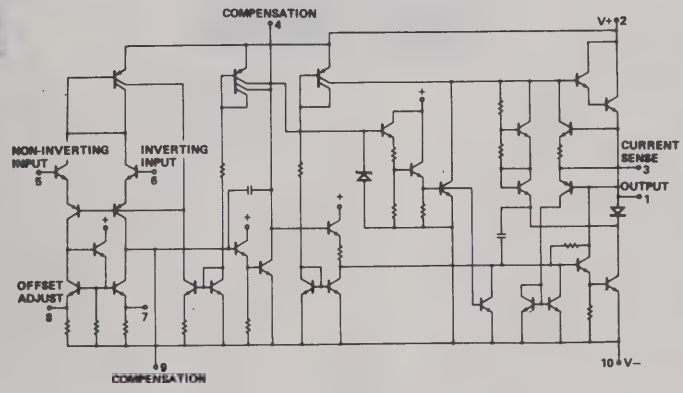


A241

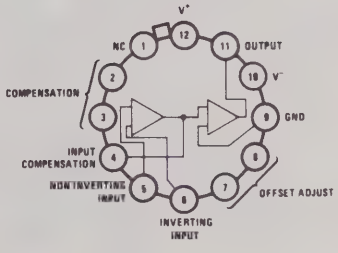


	PKG	CKT	A	B	C	D	E	F	G
A241	CN	1	3	2	1	5	7	6	4
	MP	1	5	4	3	9	11	10	6
	FP	1	4	3	2	6	8	7	5
A241a	MP	1	2	1	3	14	13	12	4
		2	6	7	5	8	9	10	4
	CN	1	4	3	NA	NA	2	1	5
		2	6	7	NA	NA	8	9	5

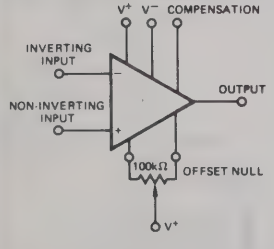
A242



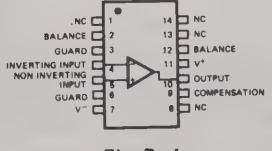
A243



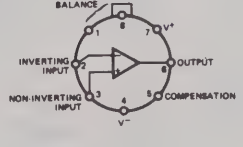
A244



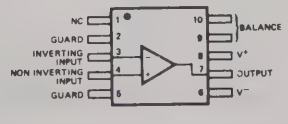
Dual-In-Line



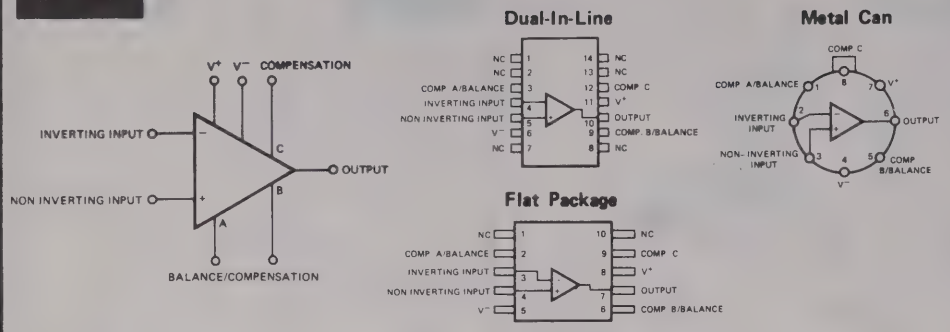
Metal Can



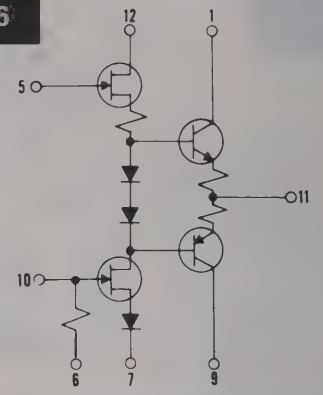
Flat Package



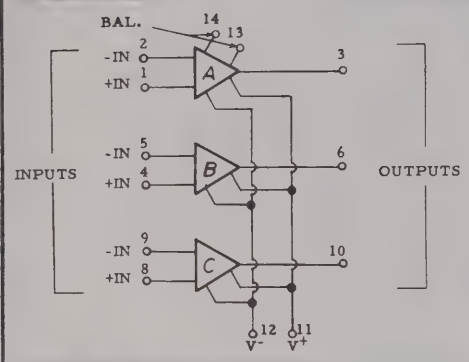
A245



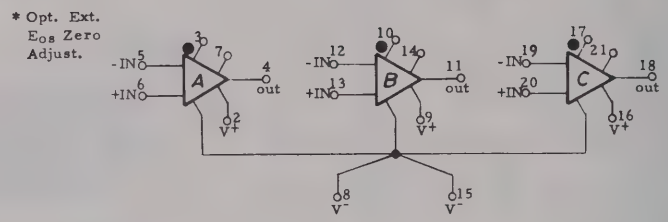
A246



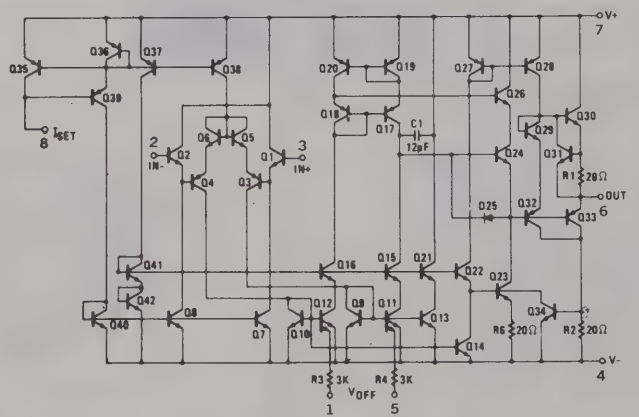
A247



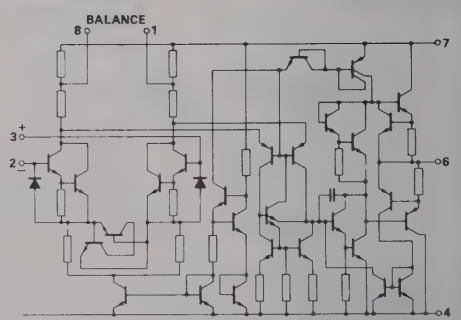
A248



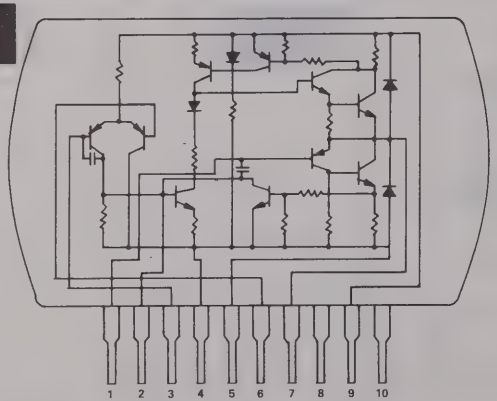
A249



A250

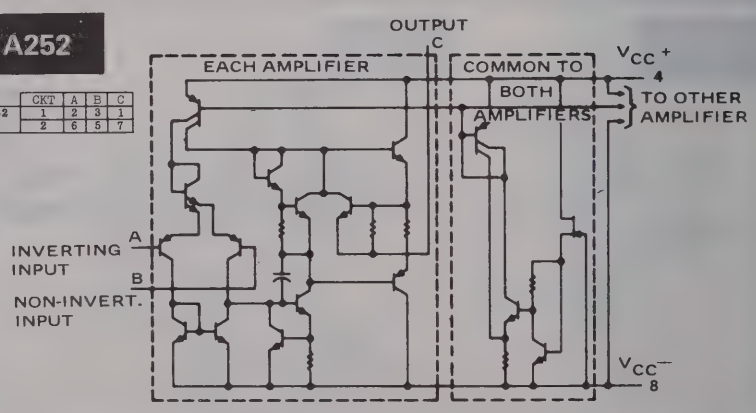


A251

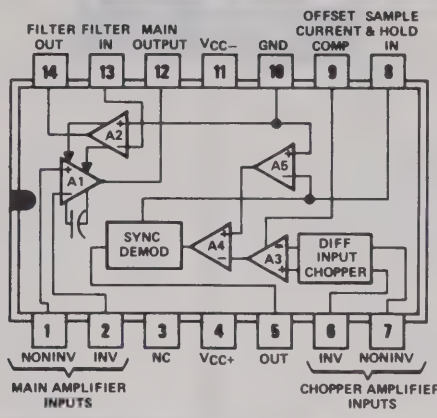


A252

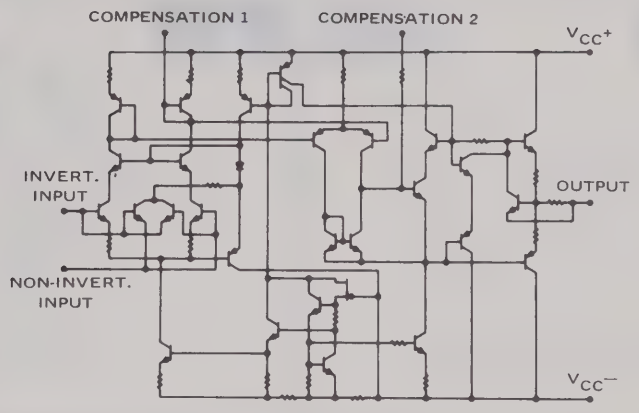
	CKT	A	B	C
A252	1	2	3	1
	2	6	5	7



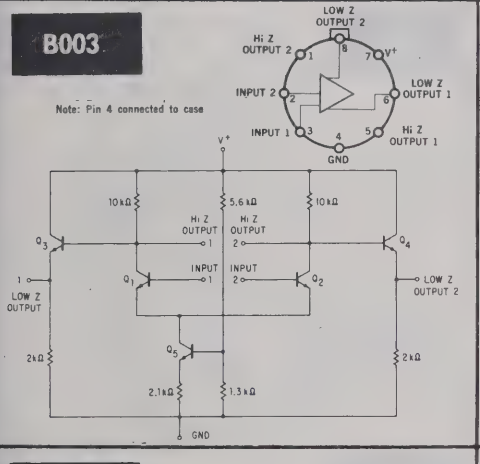
A253



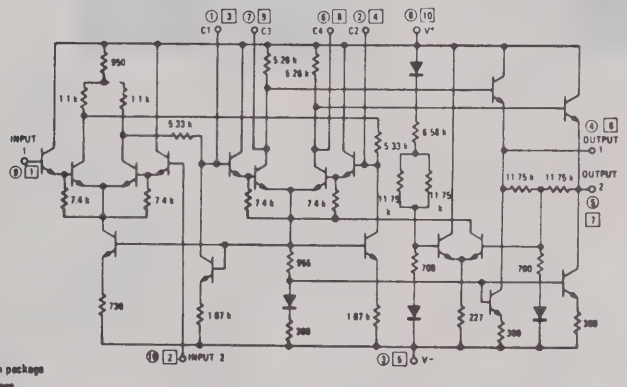
A254



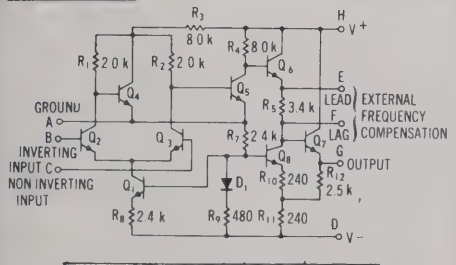
B003



B007

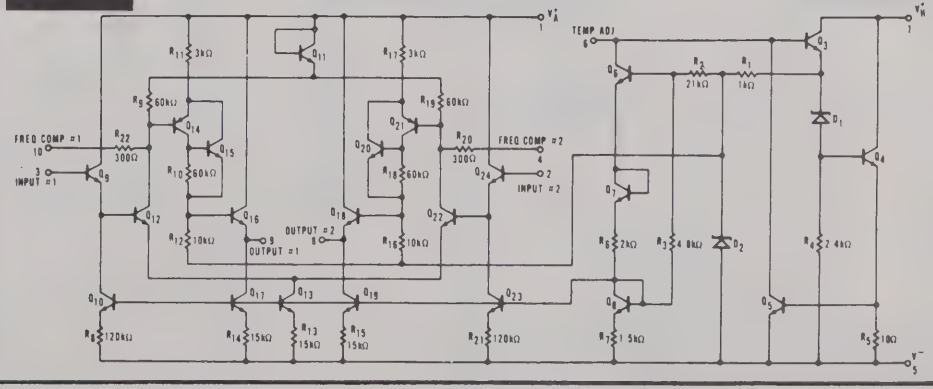


B010

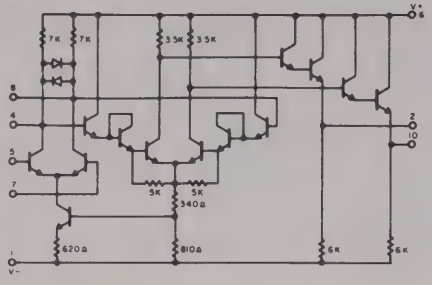


PACKAGE	A	B	C	D	E	F	G
TO99	1	2	3	4	6	7	8
TO91	2	3	4	5	7	8	10
MP	3	4	5	6	10	12	13

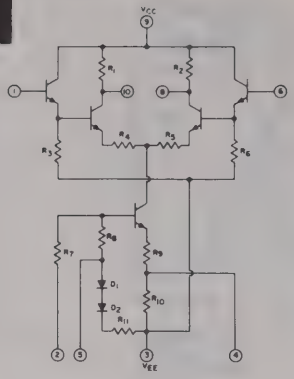
B011



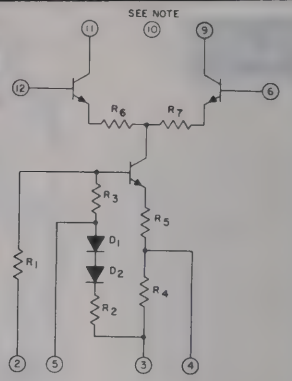
B016



B018

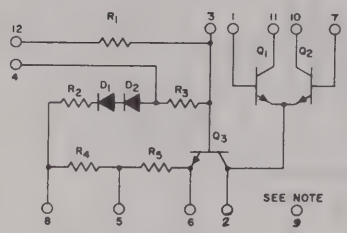


B019



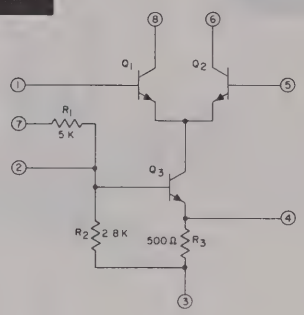
NOTE: Connect Terminal No. 10 to most positive dc supply voltage used for circuit.

B020

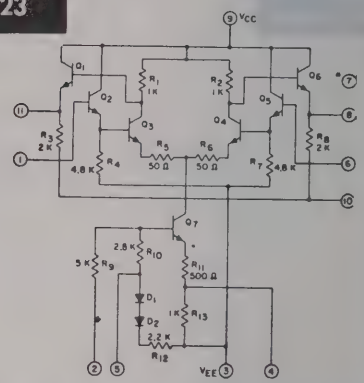


NOTE: Connect Terminal No. 9 to most positive dc supply voltage used for circuit.

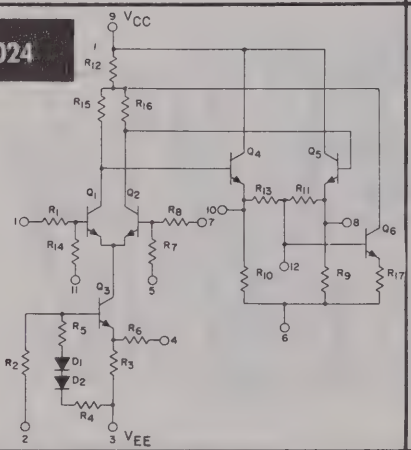
B021



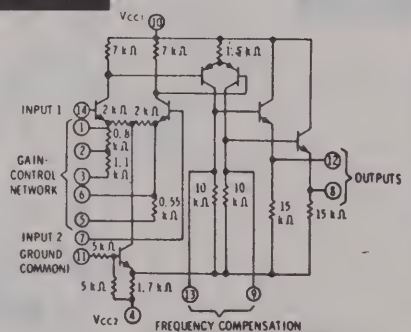
B023



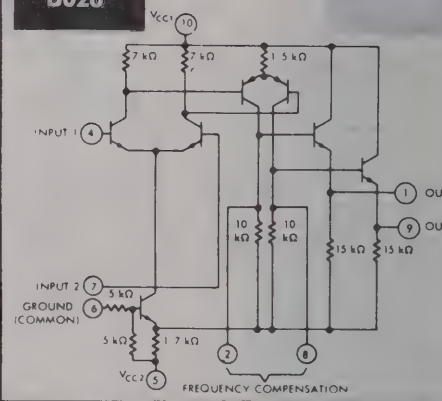
B024



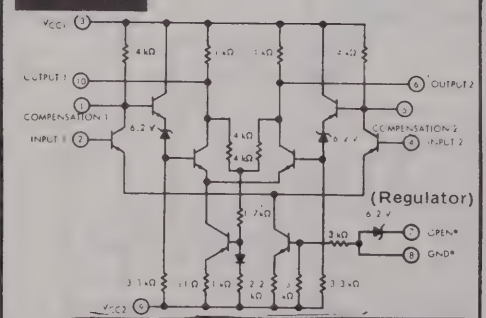
B025



B028

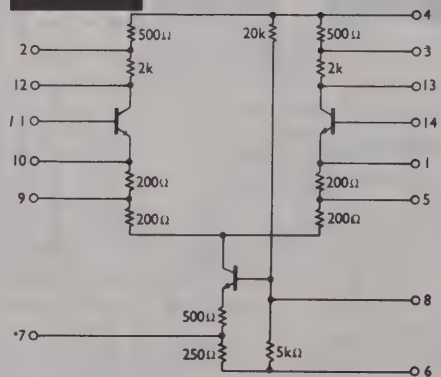


B029

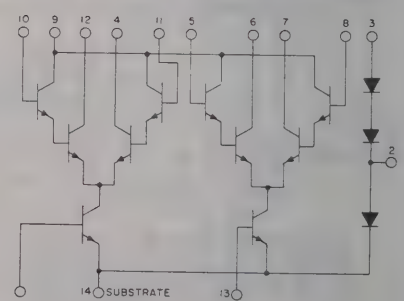


	VCC 1	OUT 1	COMP 1	IN 1	VCC 2	OUT 2	COMP 2	IN 2	OPEN (REG)	COM
B029	3	10	1	2	9	6	5	4	7	8
B029a	4	13	2	3	12	9	6	5	10	11

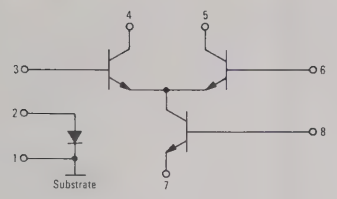
B036



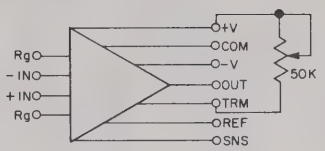
B038



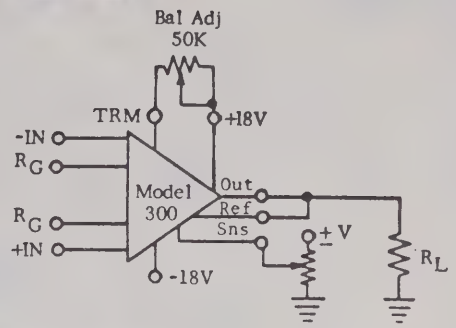
B039



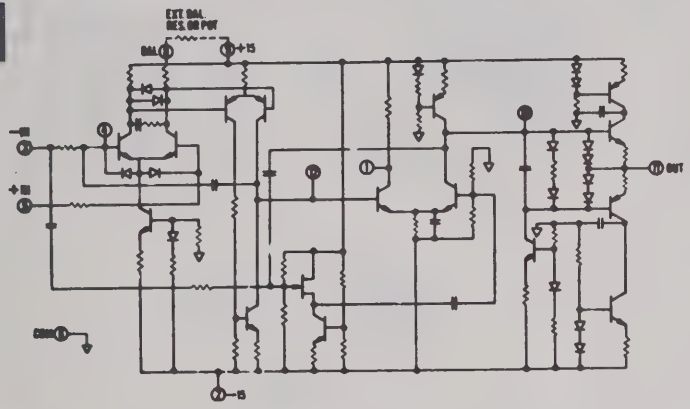
B041



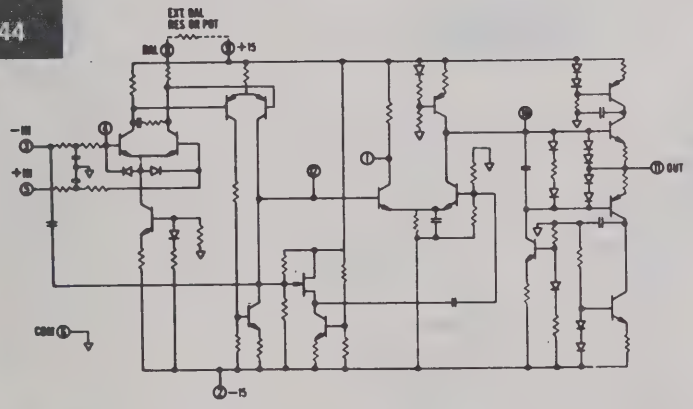
B042



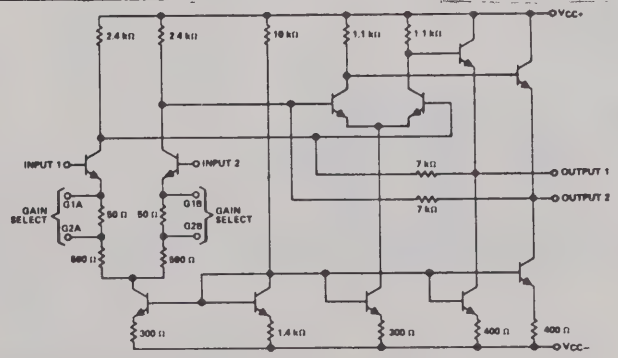
B043



B044

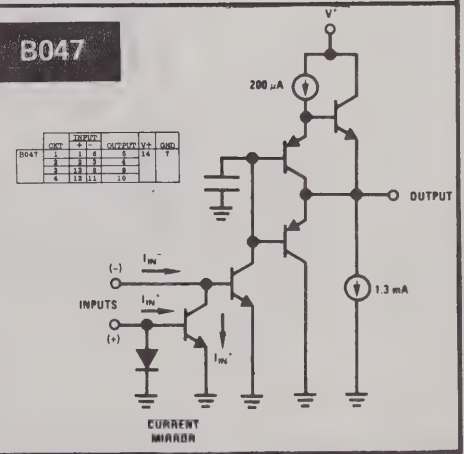


B046



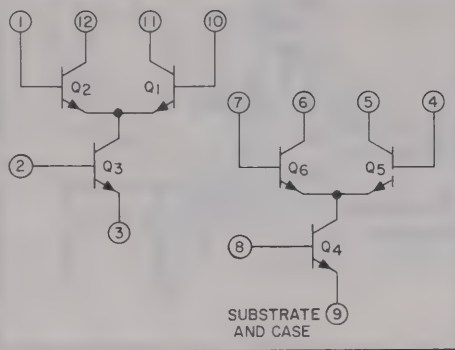
	PKG	GAIN SELECT 1A	2A	1B	2B	INPUT 1	2	OUTPUT 1	2	V+	V-
B046	TO99	9	10	4	3	1	2	7	6	8	5
	MP	4	3	11	12	1	14	7	8	10	5

B047

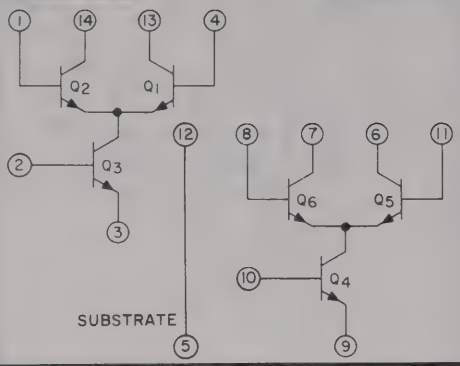


	CKT	INPUT +	-	OUTPUT	V+	GND
B047	1	1	5	3	14	7
	2	2	3	4		
	3	13	9	8		
	4	12	11	10		

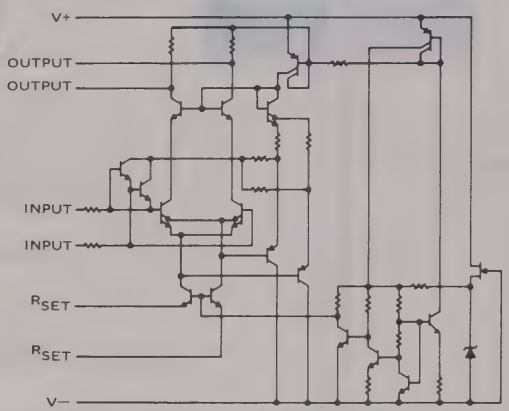
B048



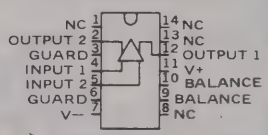
B049



B050



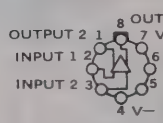
DUAL-IN-LINE PACKAGE



NOTE: PIN 6 - CONNECTED TO BOTTOM OF PACKAGE

TOP VIEW

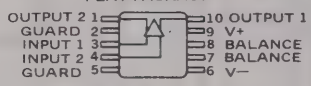
METAL CAN PACKAGE



NOTE: PIN 4 - CONNECTED TO CASE.

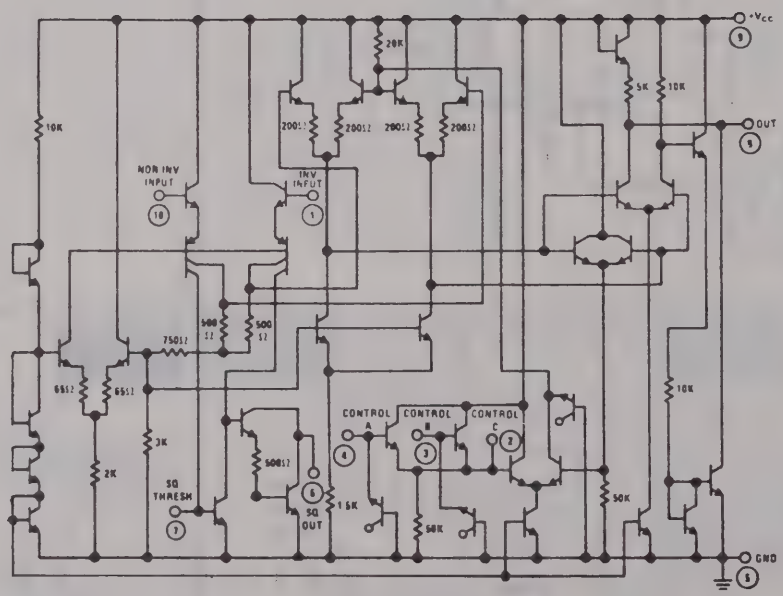
TOP VIEW

FLAT PACKAGE

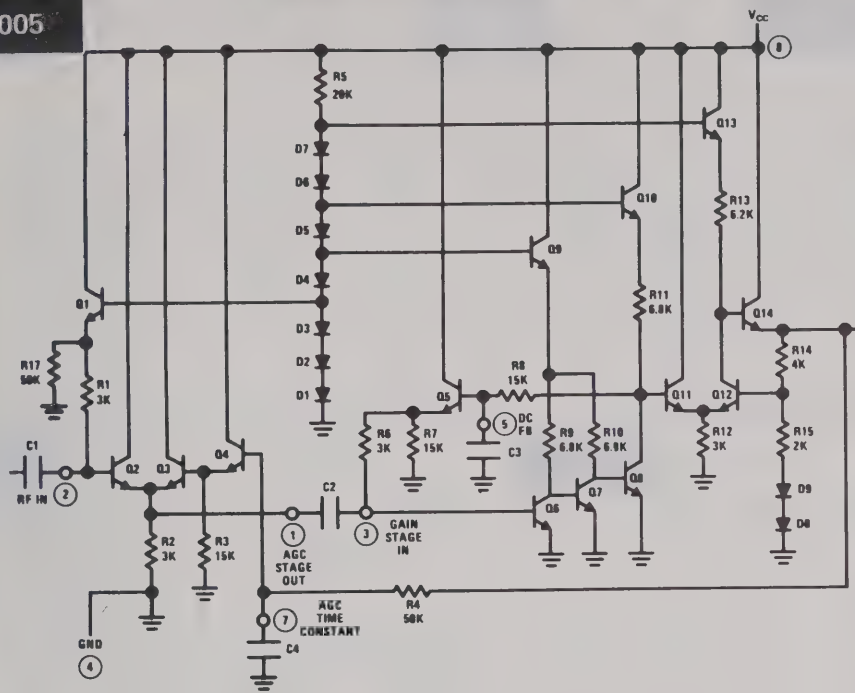


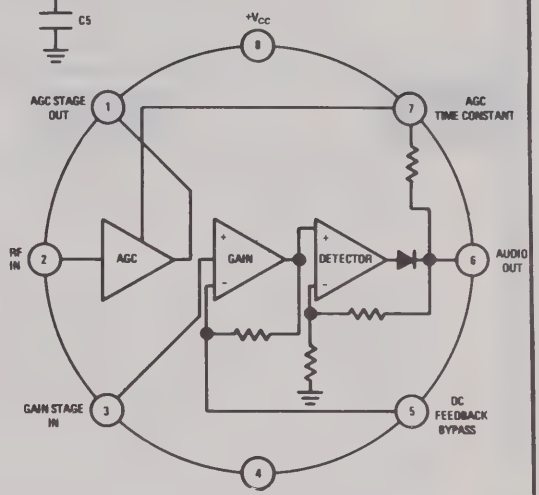
NOTE: PIN 7 - CONNECTED TO BOTTOM OF PACKAGE

C004

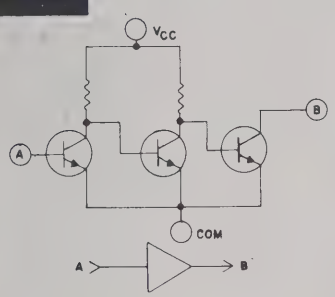


C005

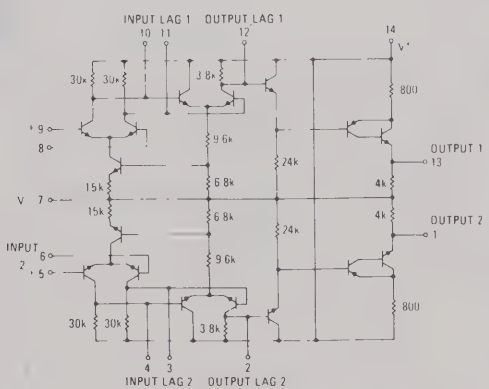




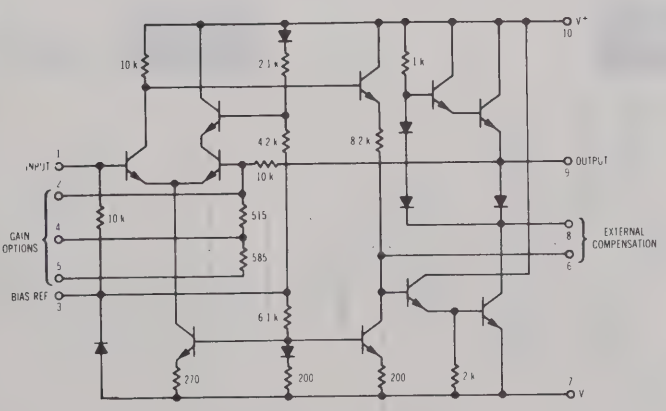
C011



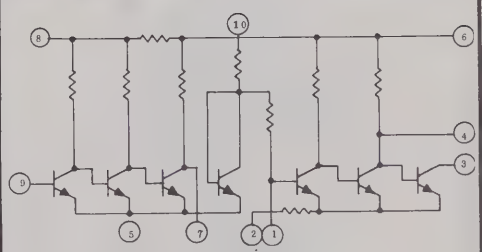
C016



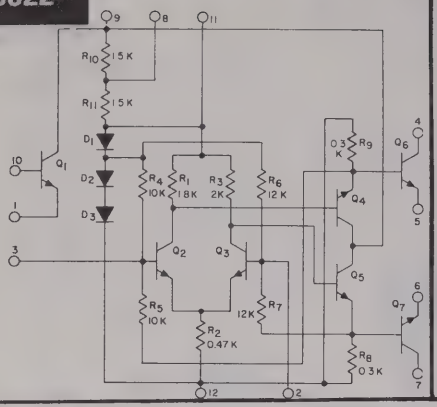
C018



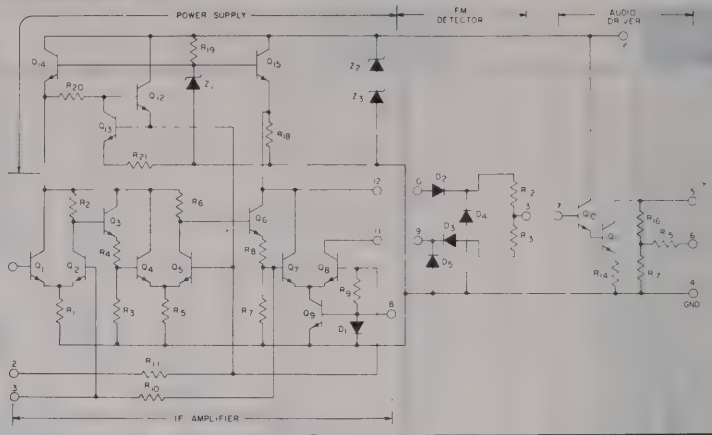
C021



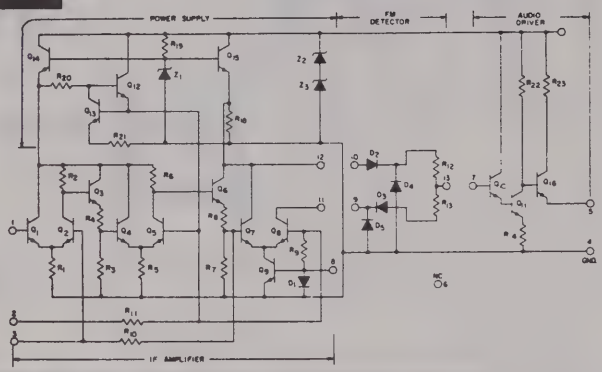
C022



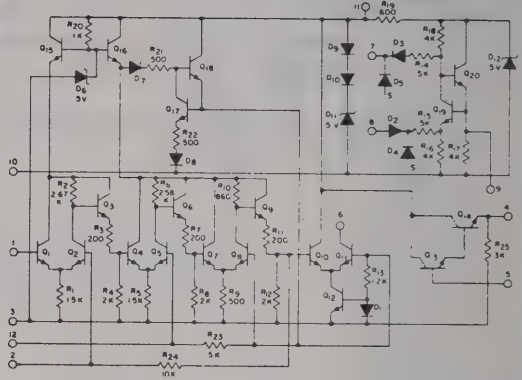
C024



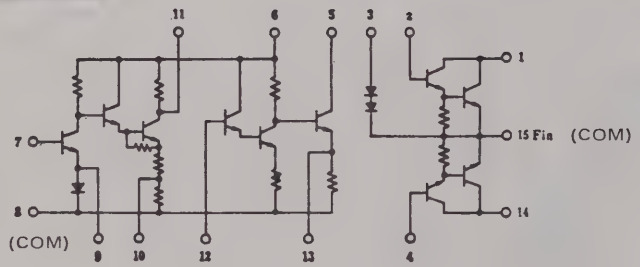
C025



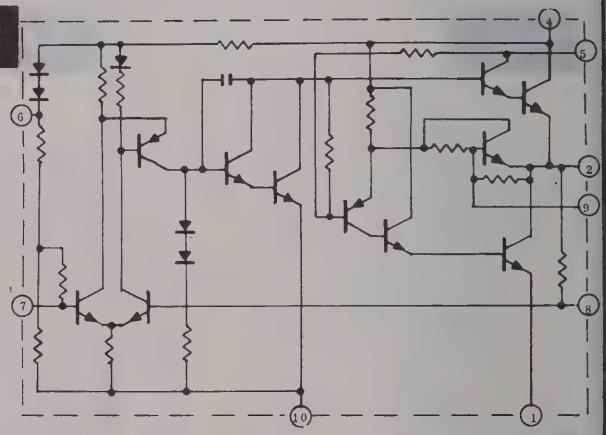
C026



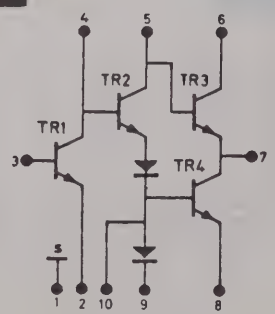
C029



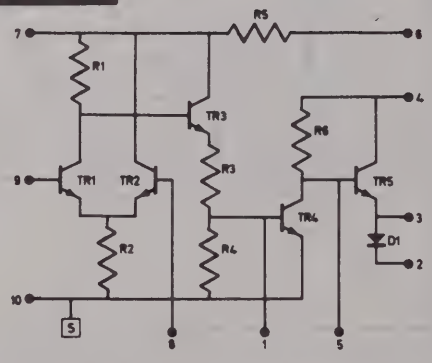
C031



C032

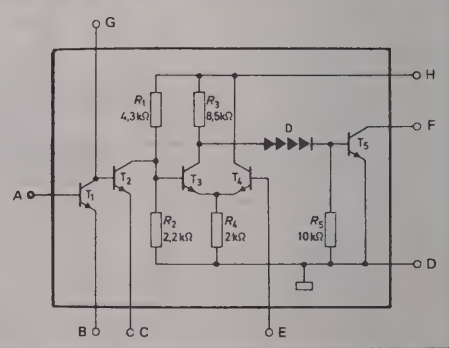


C035

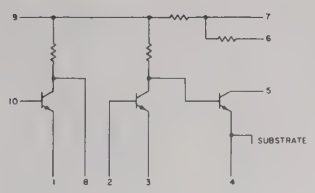


C036

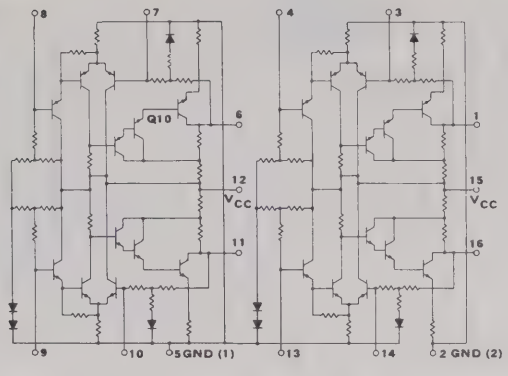
	A	B	C	D	E	F	G	H
C036	7	8	9	2	4	3	10	5
C036a	5	6	7	10	2	1	8	3



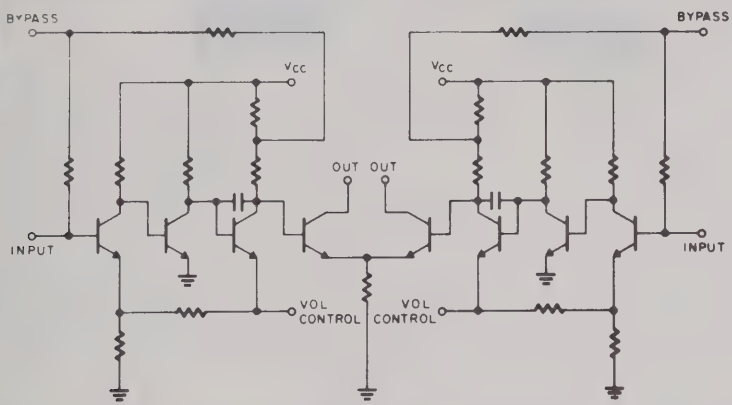
C037



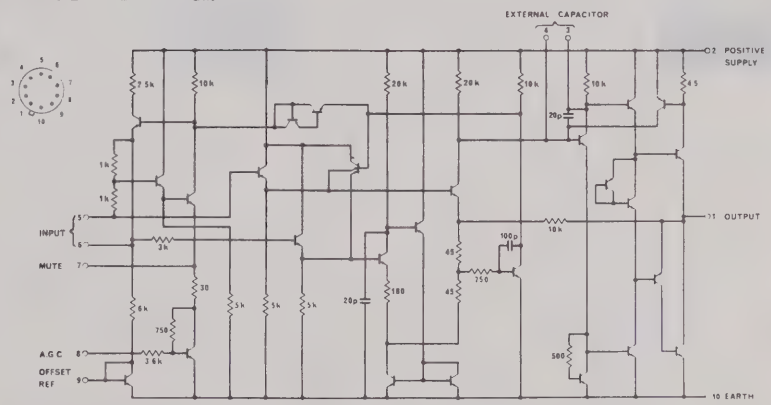
C047



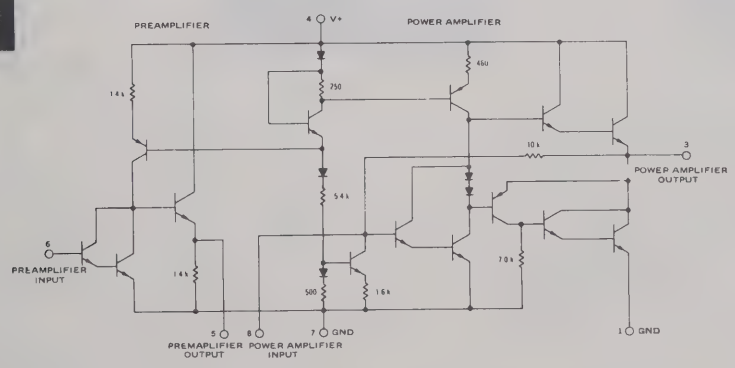
C049



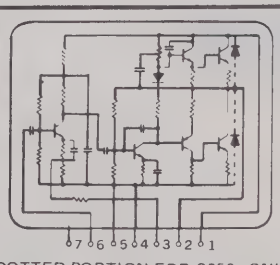
C050



C057



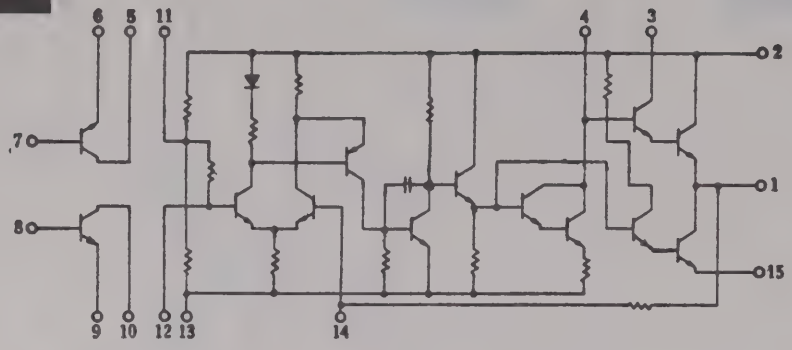
C058



DOTTED PORTION FOR C058a ONLY

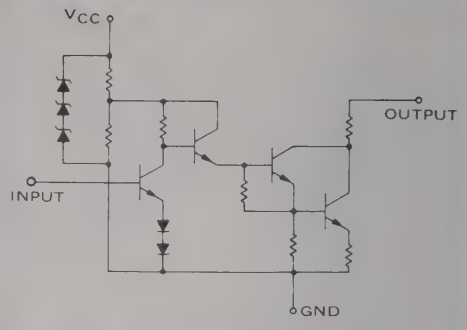
1. V_{CC}
2. OUTPUT (TO A CAPACITOR)
3. FEEDBACK
4. GROUND FOR OUTPUT
5. GROUND FOR INPUT
6. INPUT
7. SPARE

C062

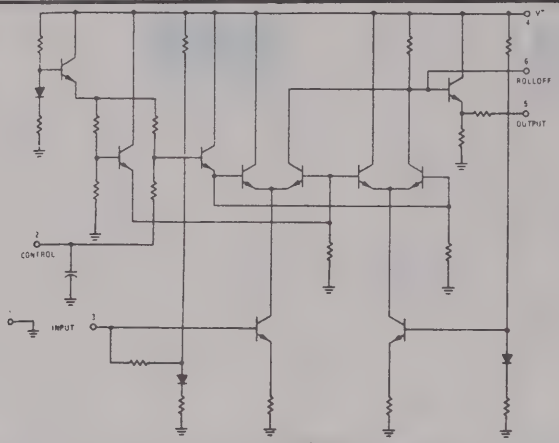


C067

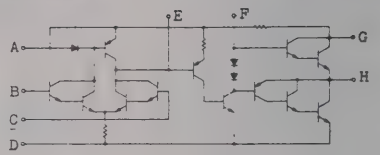
	INPUT	OUTPUT	VCC	GND
C067	2	4	3	1
C067a	5	1	4	8



C069

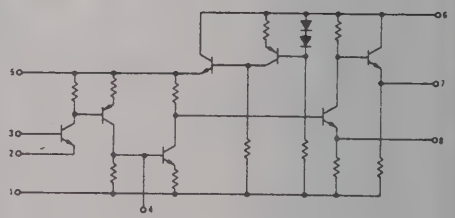


C070

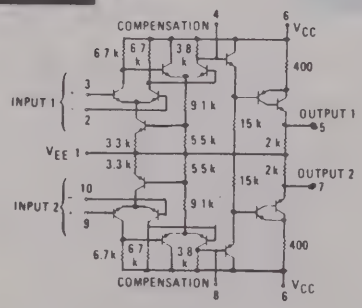


	A	B	C	D	E	F	G	H
C070	5	4	3	1	2	6	7	8
C070a	6	7	8	2,9	1	5	4	3

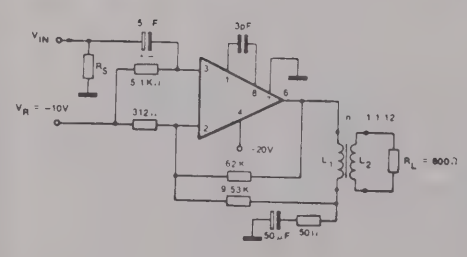
C072



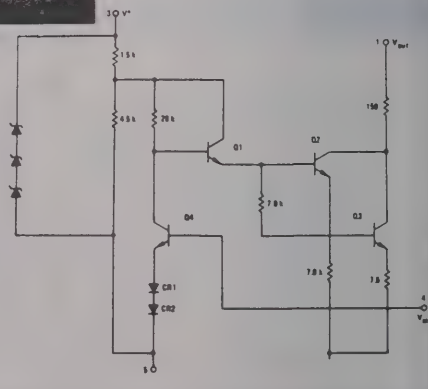
C073



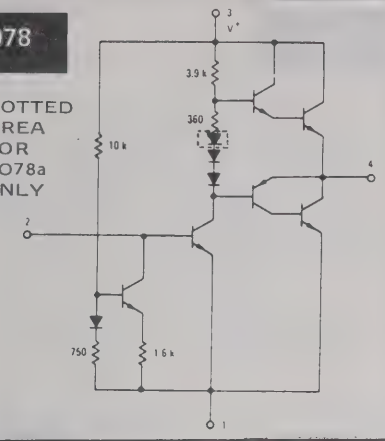
C075



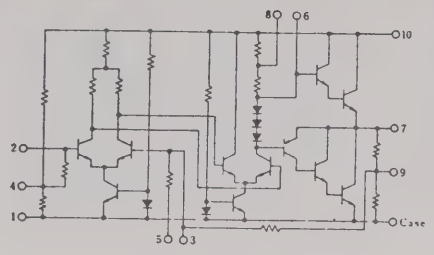
C077



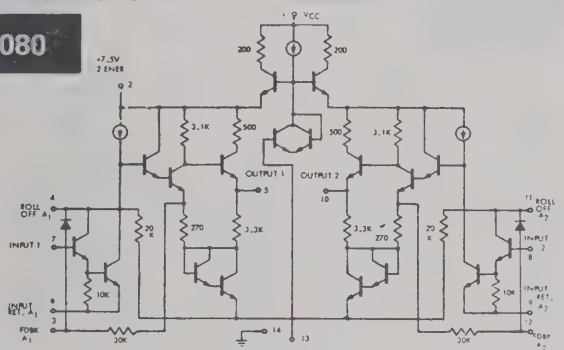
C078



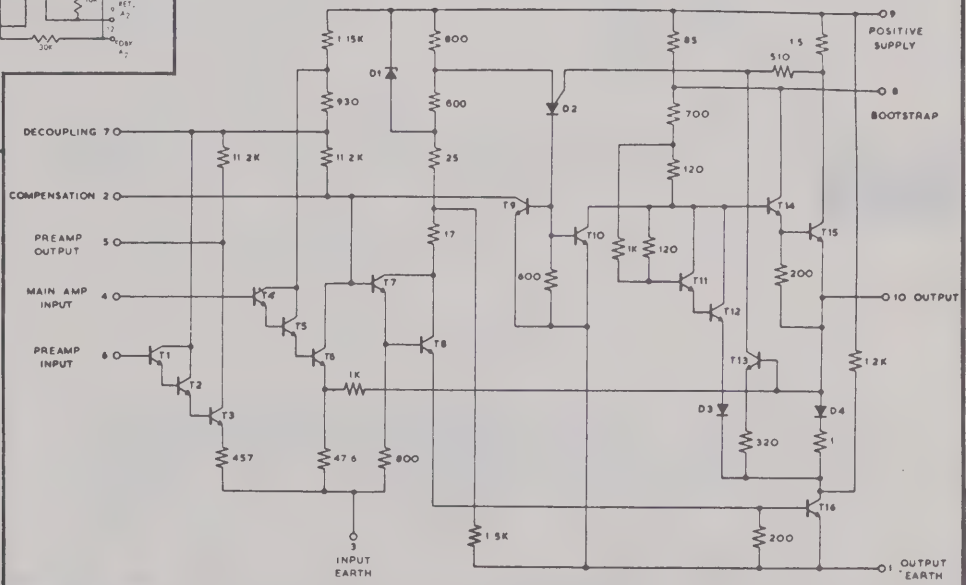
C079



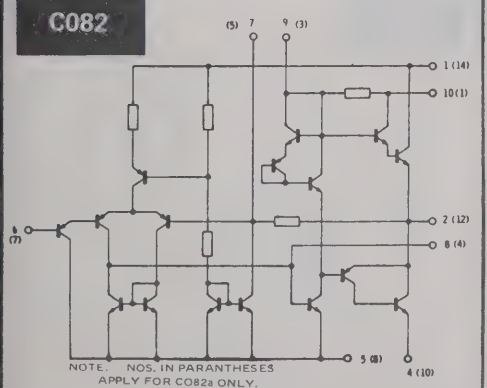
C080



C081

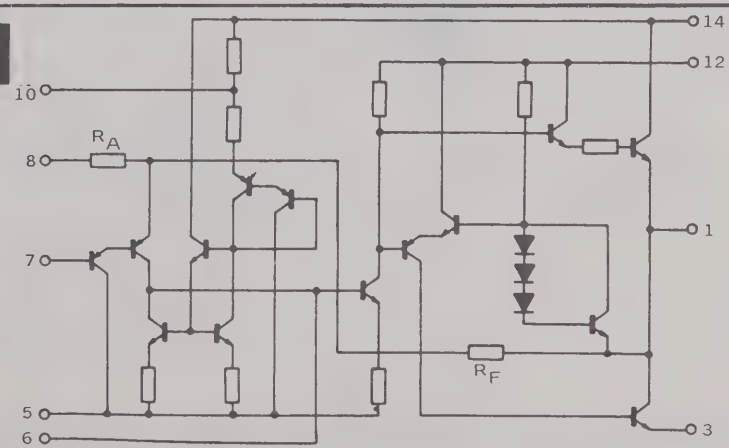


C082



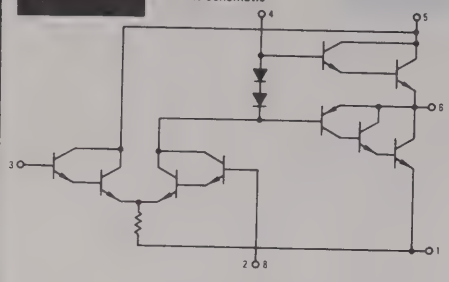
NOTE. NOS. IN PARANTHESES APPLY FOR C082a ONLY.

C083



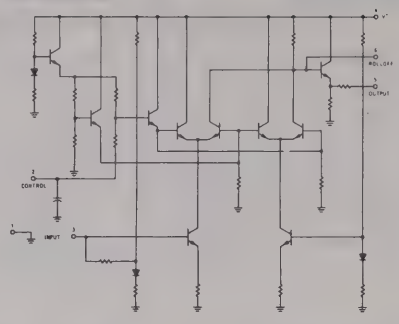
C086

Circuit Schematic

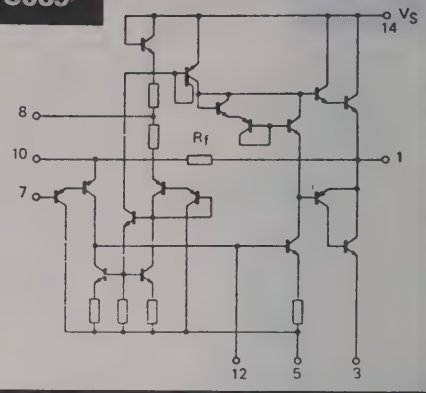


	A	B	C	D	E	F
C086	3	6	4	5	2,8	1
C086a	7	3	5	4	8	1,2,9

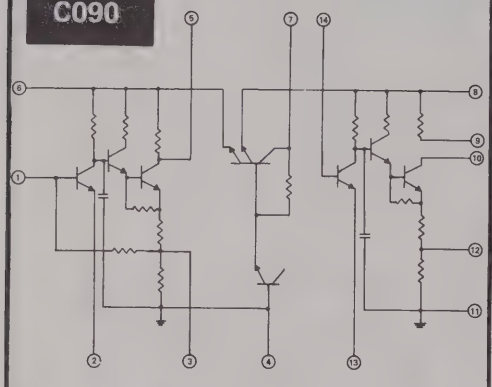
C088



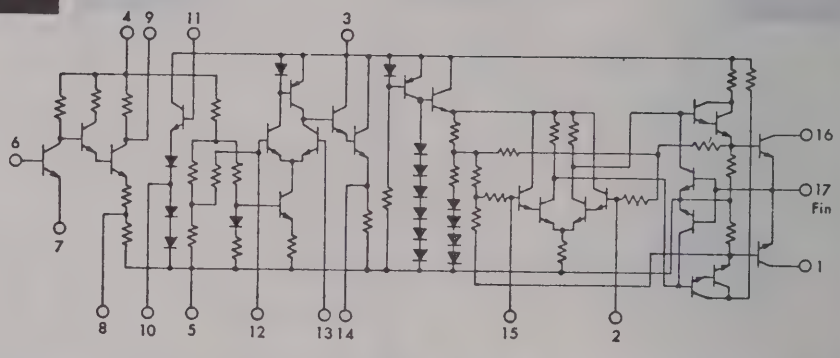
C089



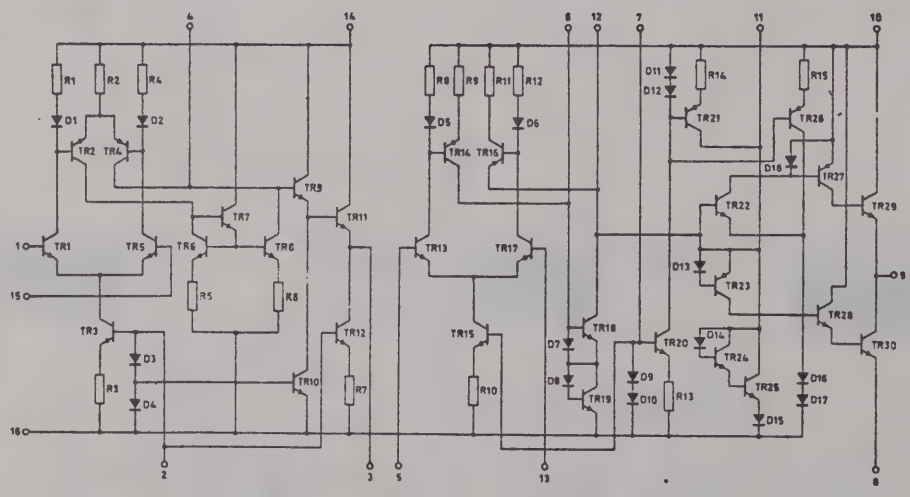
C090



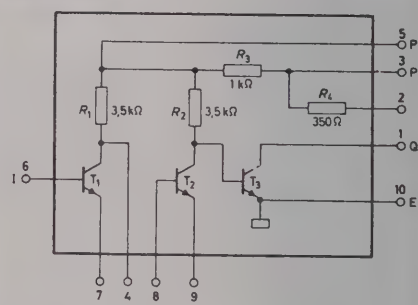
C091



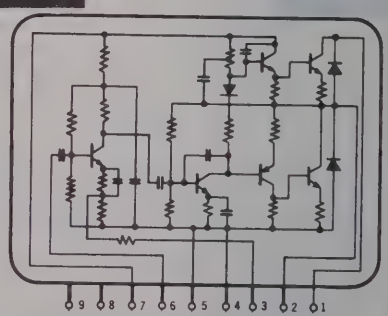
C092



C093

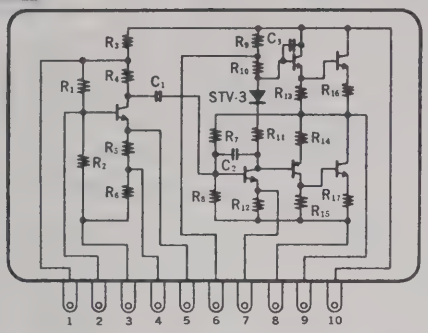


C095



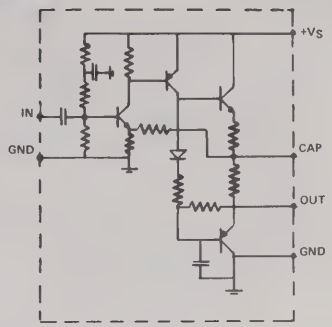
1. Vcc 2. Output (to a capacitor) 3. Feedback 4. Ground for output
5. Ground for input 6. Input 7. Vcc 8. 9. Spare

C096

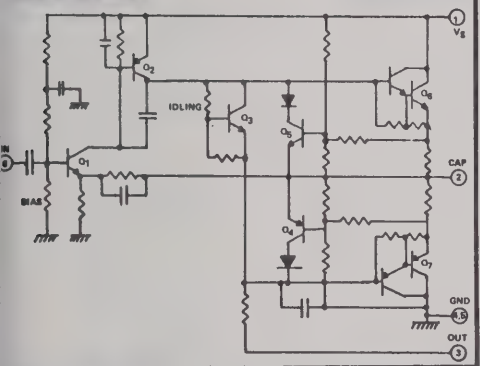


1. To filtering capacitor
2. Input
3. Ground for input
4. To feedback resistor
5. To bypass capacitor
6. To boost trap capacitor
7. To bypass capacitor
8. Ground for output
9. Output to coupling capacitor
10. Vcc

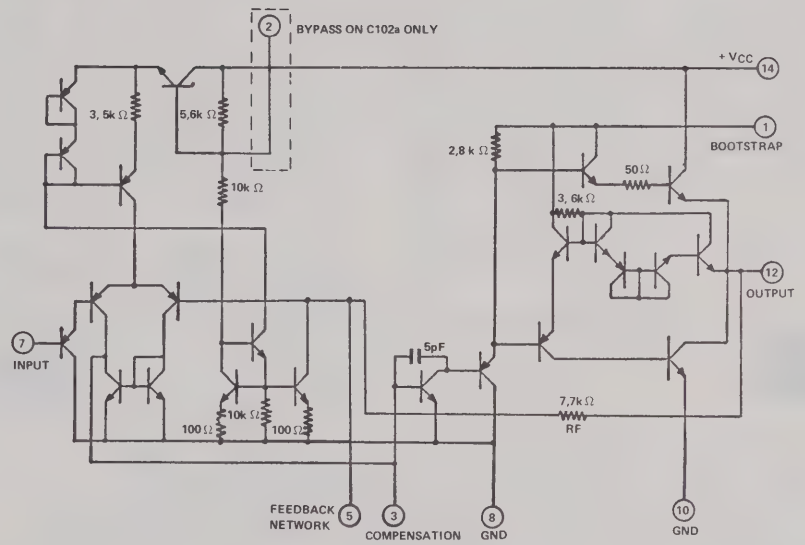
C100



C101

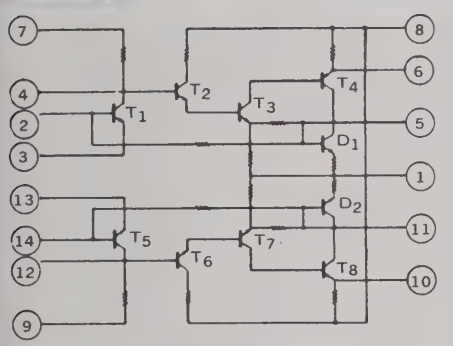


C102

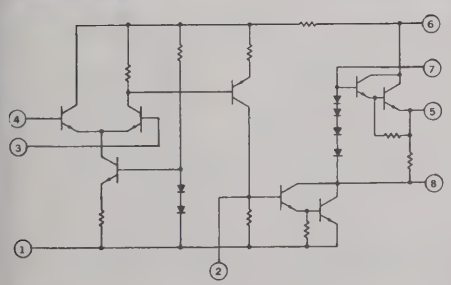


	PKG	BOOTSTRAP	COMPENSATION	FEEDBACK	INPUT	OUTPUT	GND	VCC	NC	BYPASS
C102	MP	1	3	5	7	12	8,10	14	2,4,6,9,11,13	NA
	CN	10	9	7	6	2	5,4	1	8	NA
C102a	MP	1	3	5	7	12	8,10	14	4,6,9,11,13	2

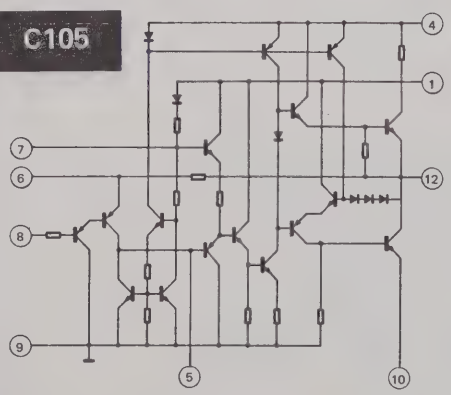
C103



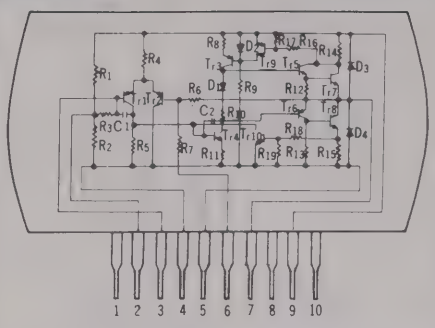
C104



C105



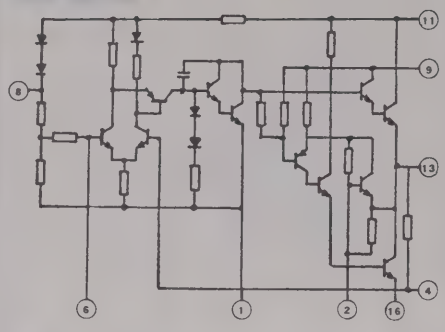
C106



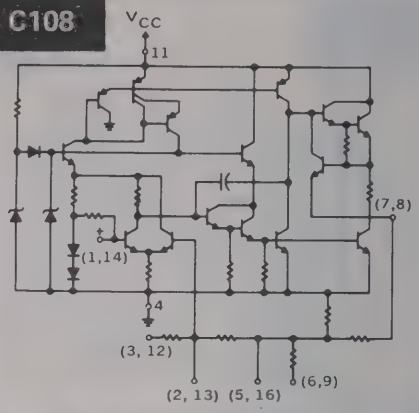
TERMINAL ASSIGNMENTS

	A. With single power supply	B. With split (dual) power supply
1	Spare	1. Spare
2	+terminal of noise suppression capacitor	2. Input (−) & ground terminal
3	Input (+)	3 Input (+)
4	Input (−)	4. Not used
5	Ground for power supply & ground for output	5. Power supply (−V_{CC})
6	Feedback	6. Feedback
7.	Output	7. Output
8.	Spare	8. Spare
9	Power supply (+)	9. Power supply (+V_{CC})
10	Spare	10. Spare

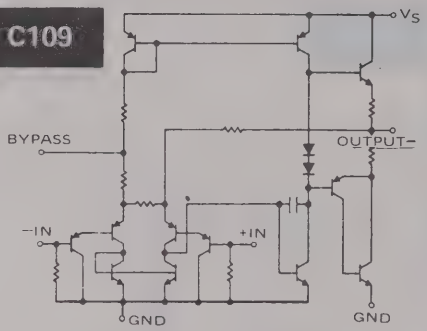
C107



C108

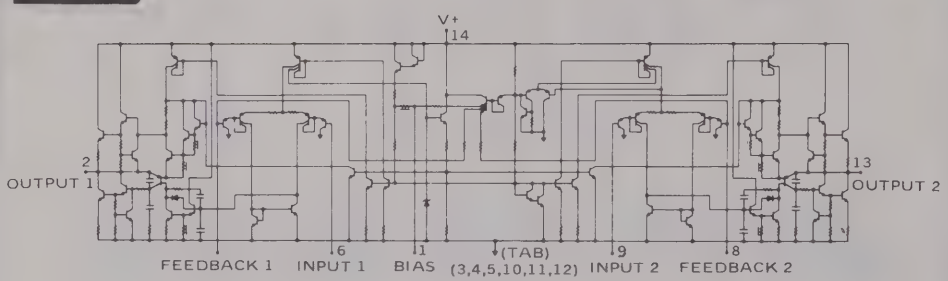


C109

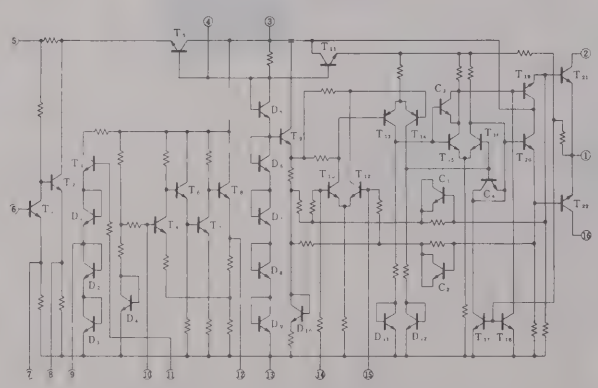


	LEADS	BYPASS	IN +	IN −	OUT	VS	GND
C109	14	1	2	6	8	14	3,4,5,10,11,12
	8	8	2	3	6	7	5

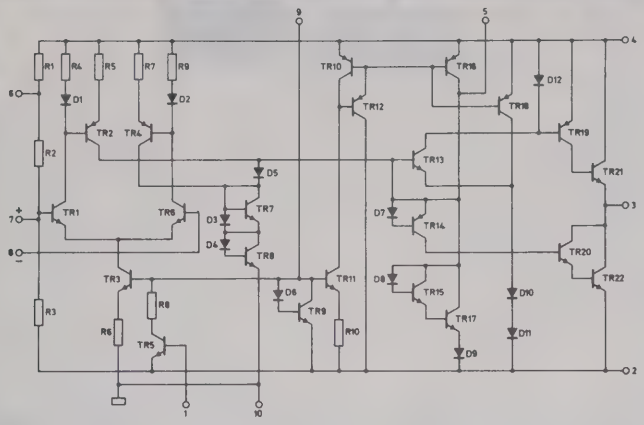
C110



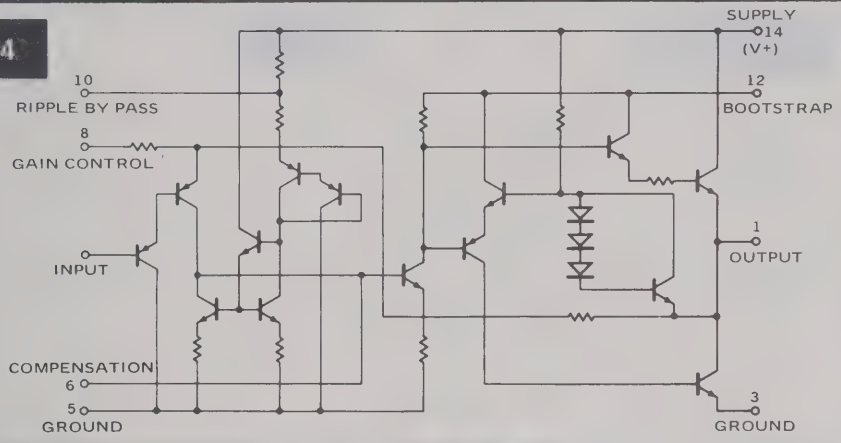
C112



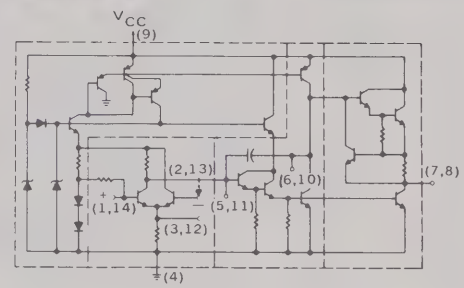
C113



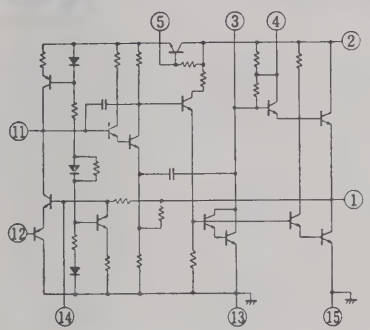
C114



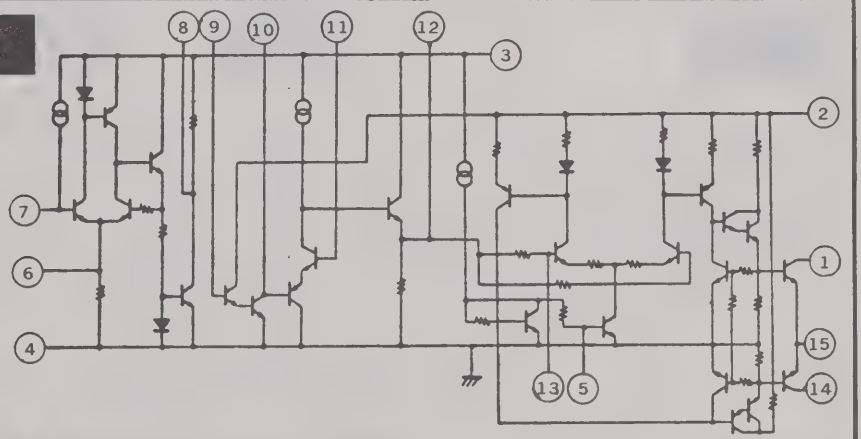
C115



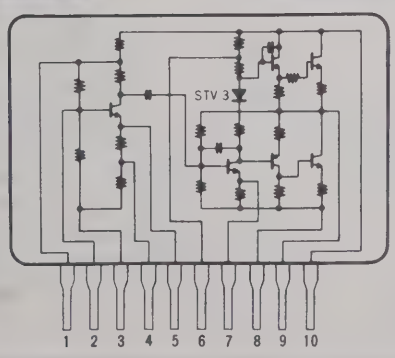
C116



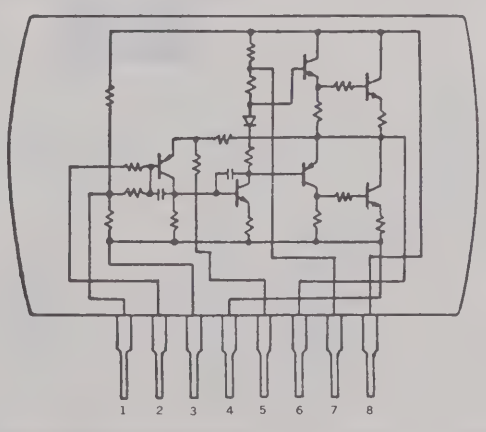
C117



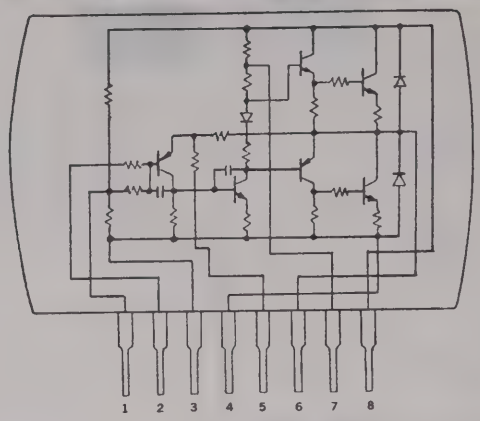
C118



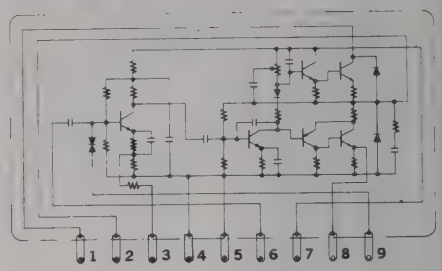
C119



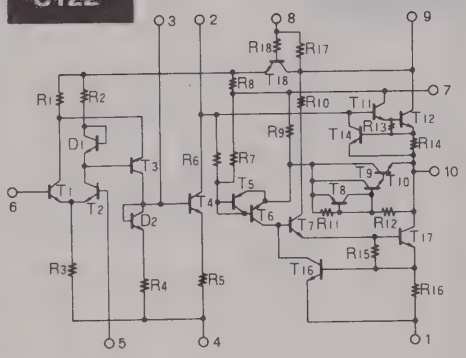
C120



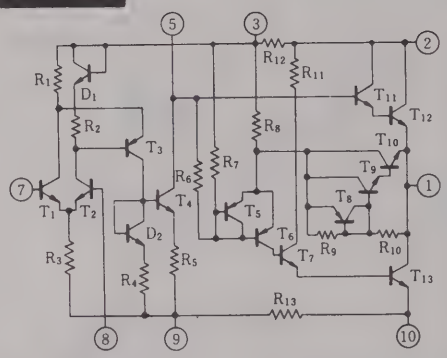
C121



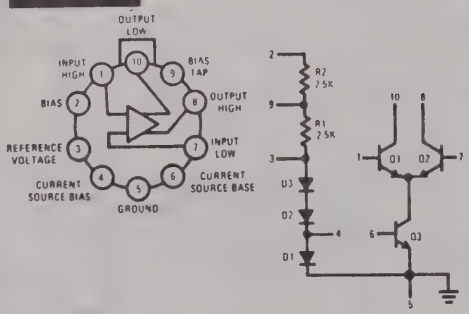
C122



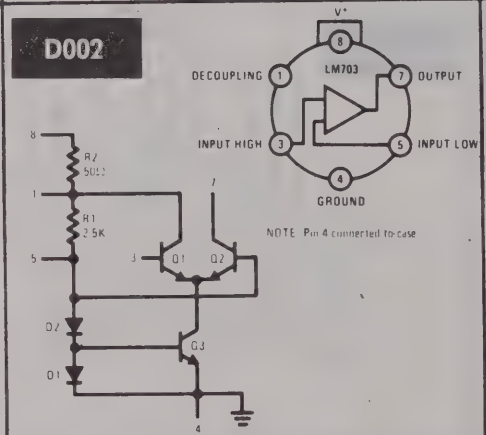
C123



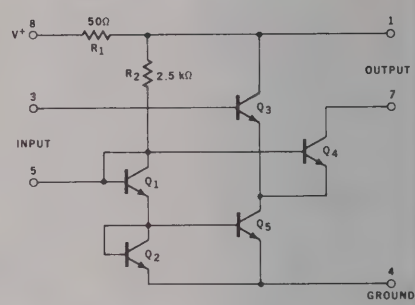
D001



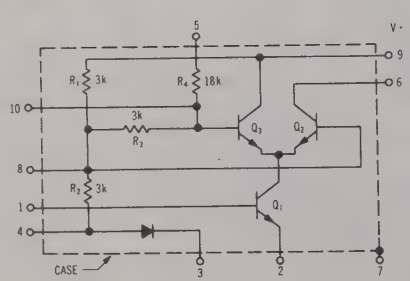
D002



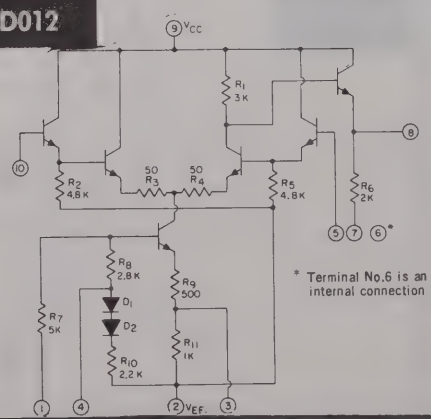
D004



D007

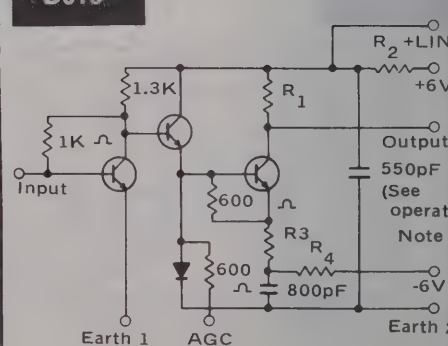


D012

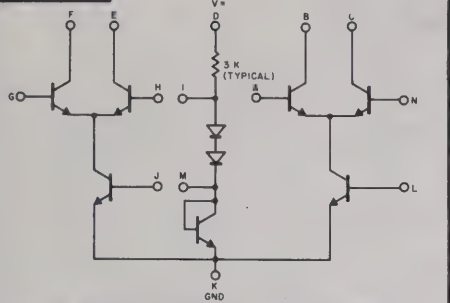


* Terminal No.6 is an internal connection

D013

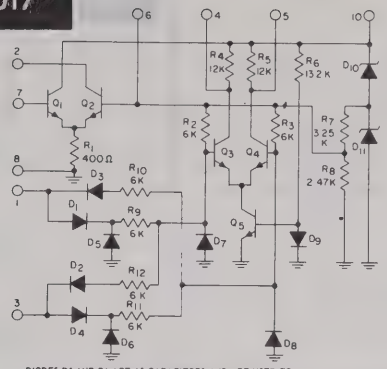


D016



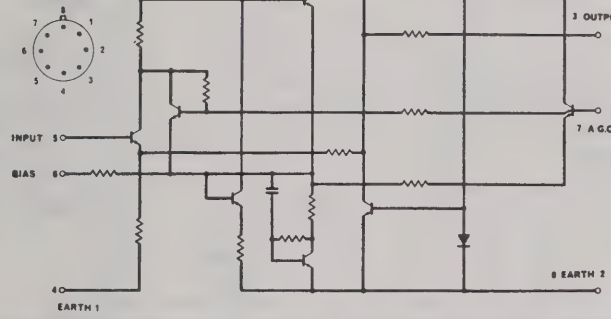
	A	B	C	D	E	F	G	H	I	J	K	L	M	N
TO116	11	12	13	14	1	2	3	4	5	6	7	8	9	10
TO88	1	2	3	4	5	6	7	8	9	10	11	12	13	14

D017

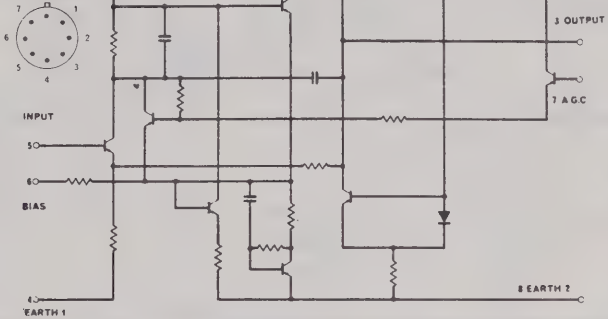


DIODES D5 AND D6 ACT AS CAPACITORS AND ARE USED TO BALANCE THE DETECTOR SUBSTRATE CAPACITANCES

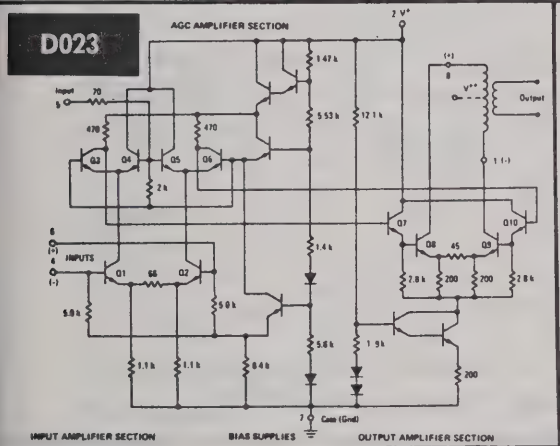
D020



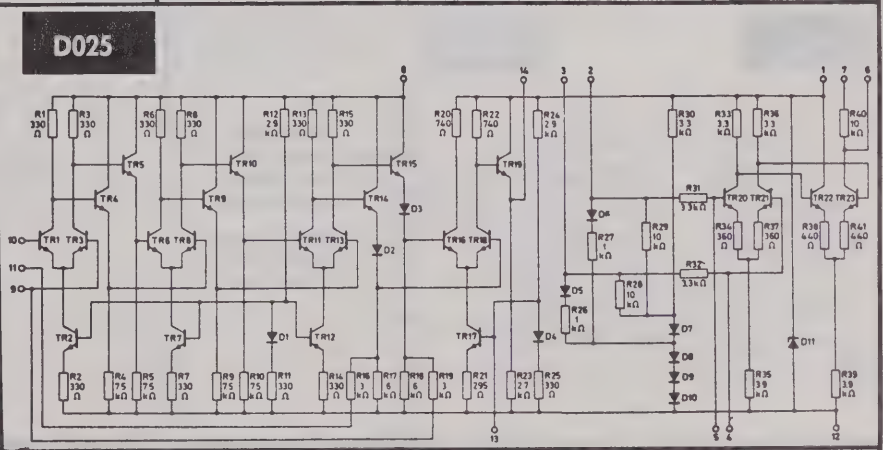
D021



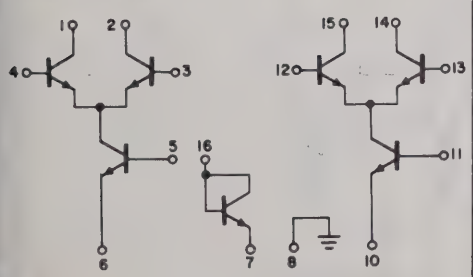
D023



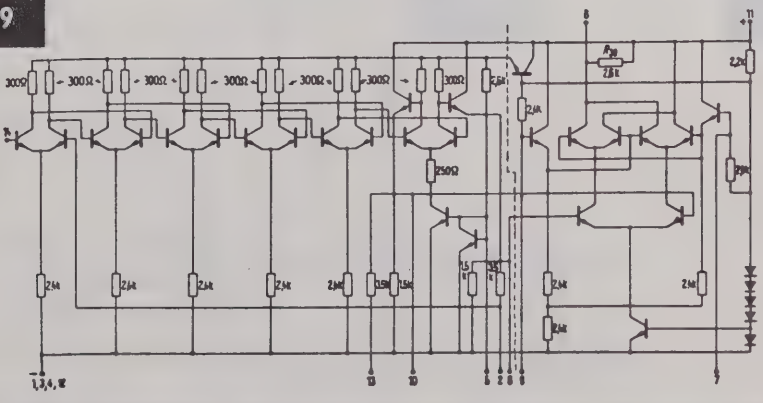
D025



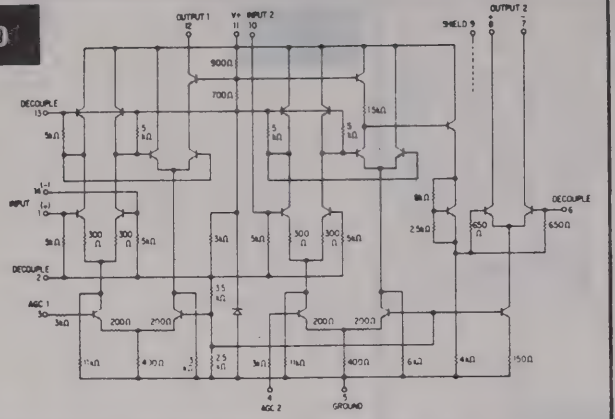
D026



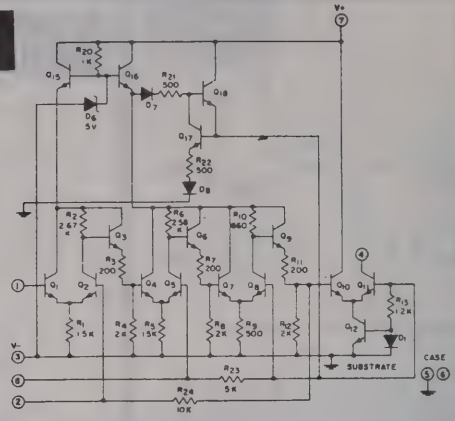
D029



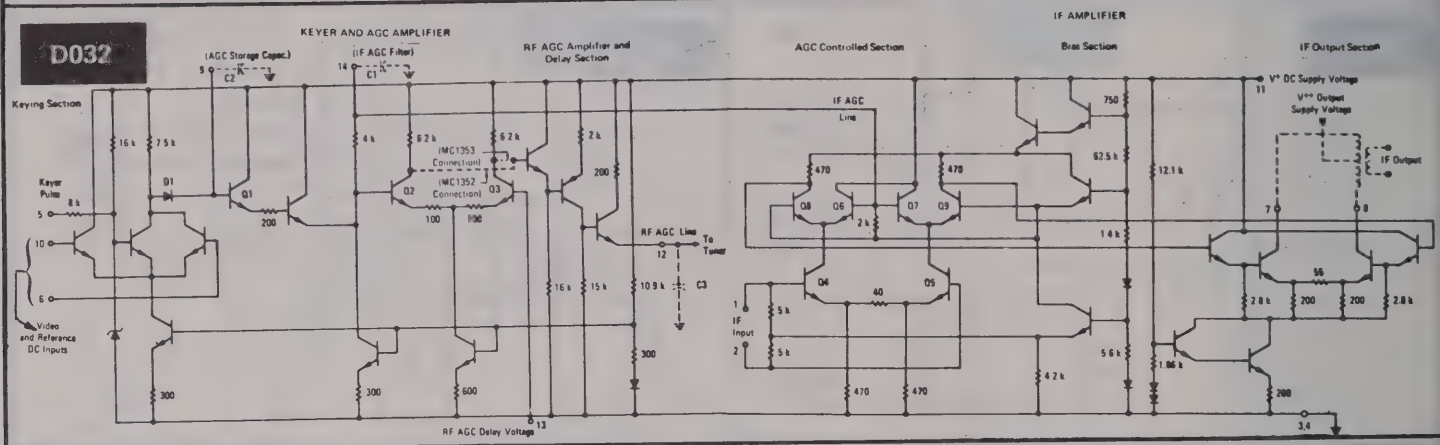
D030



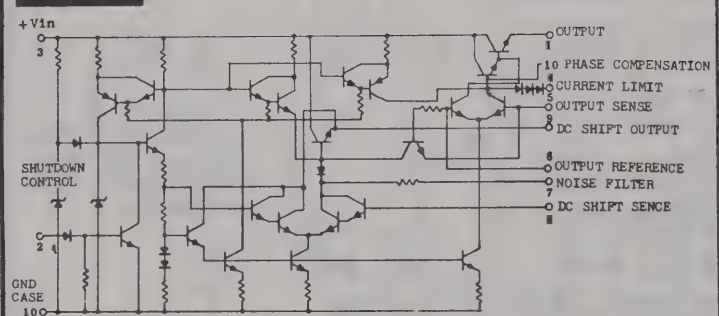
D031



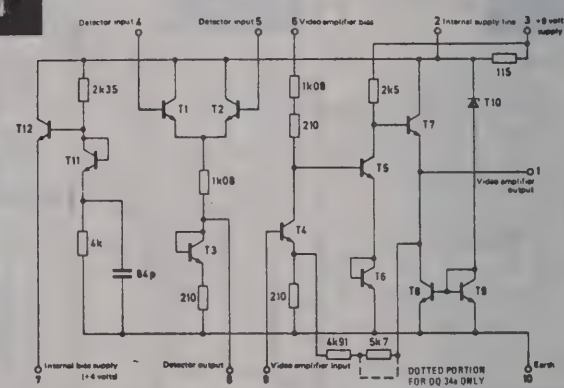
D032



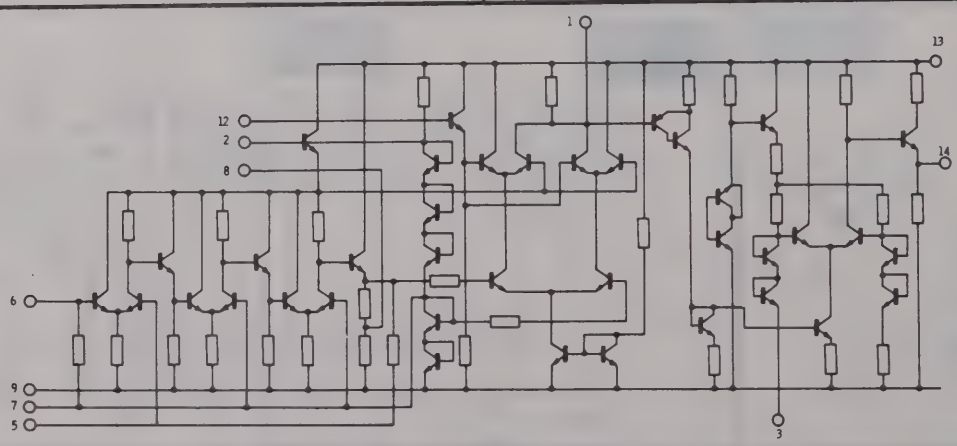
D033



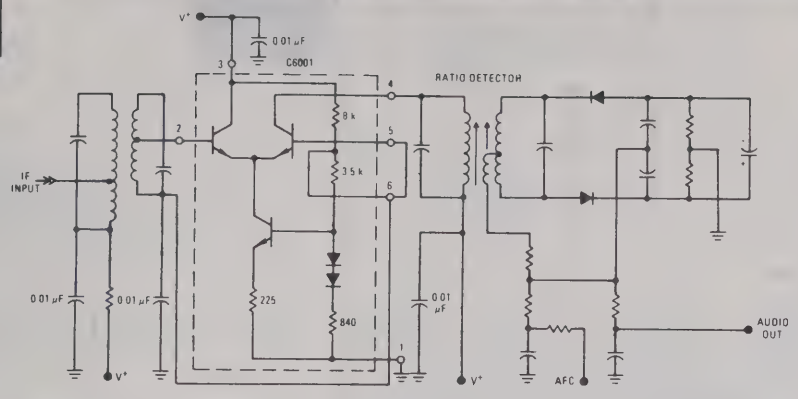
D034



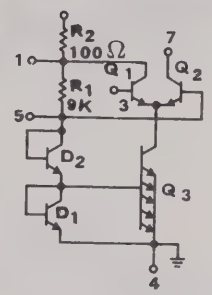
D035



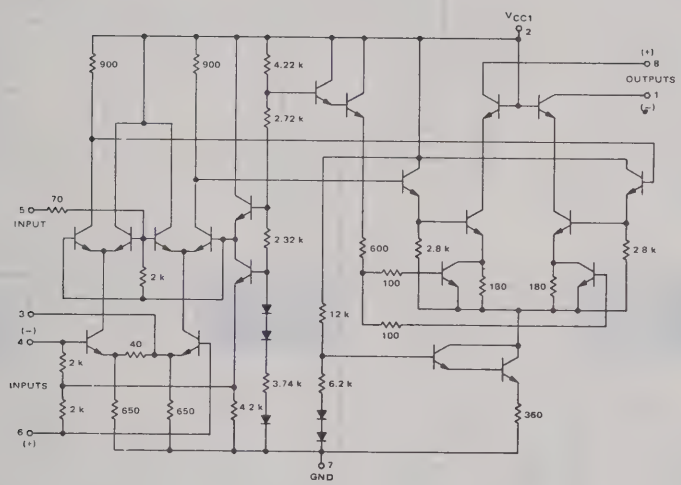
D036



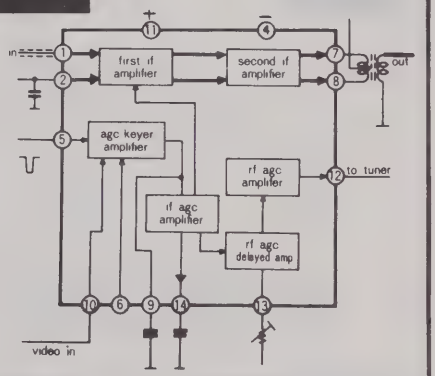
D039



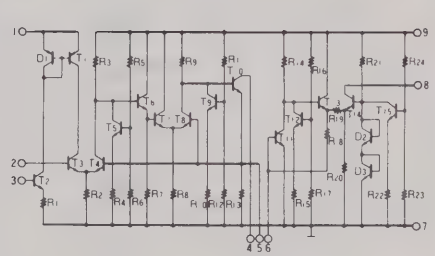
D040



D041

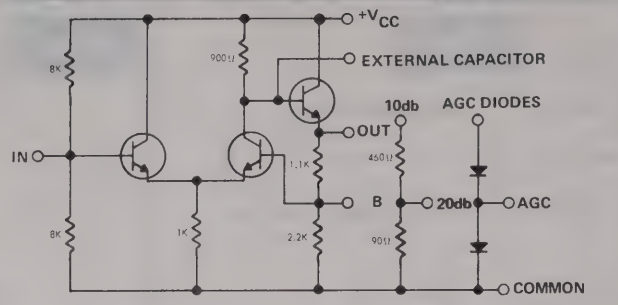


D042



E005

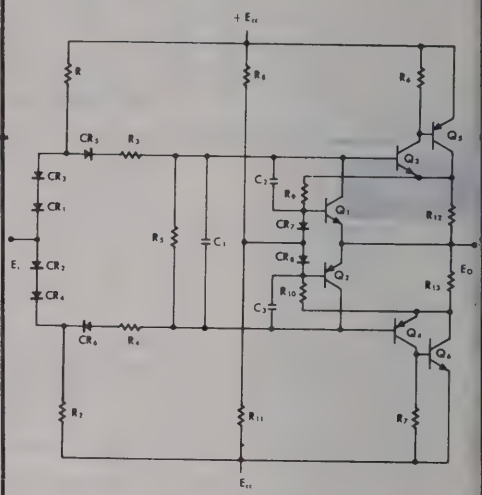
		NC
CAN PKG	CN	
FLAT PACK		2,6,9,13



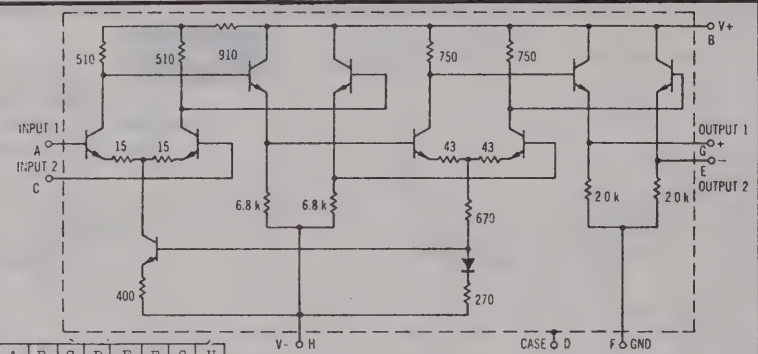
		AGC	AGC DIODES	FEEDBACK	EXTERNAL CAPACITOR	OUTPUT	+ VCC	INPUT	10DB	20 DB	GND
CAN PKG	CN	1	2	3	4	5	6	7	8	9	10
FLAT PACK		1	3	4	5	7	8	10	11	12	14

E006

	PKG	E_1	E_0	$+E_{CC}$	$-E_{CC}$
E006	MP	1	4	3	6
E006a	MP	3	8	10	6

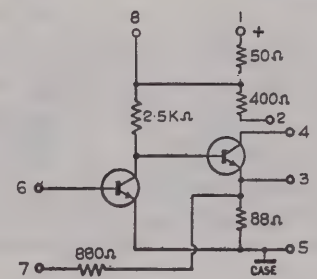


E008

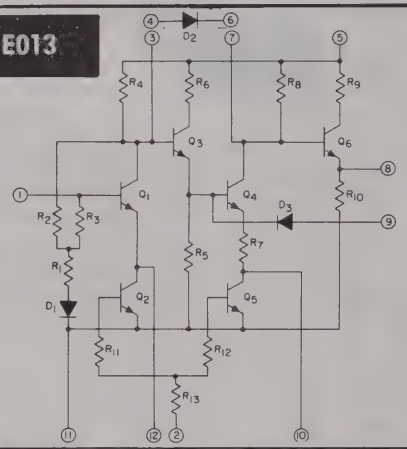


	PKG	A	B	C	D	E	F	G	H
E008	FP	1	3	5		6	7	9	10
E008a	CN	1	2	3	4	5	6	7	8
	FP	10	9	1		4	5	7	8

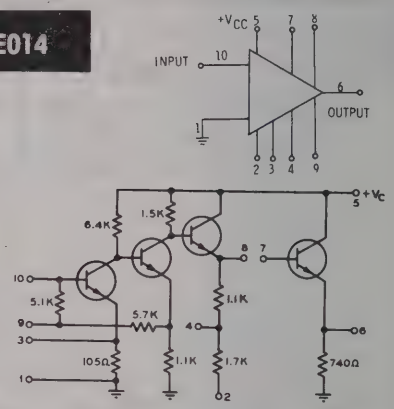
E012



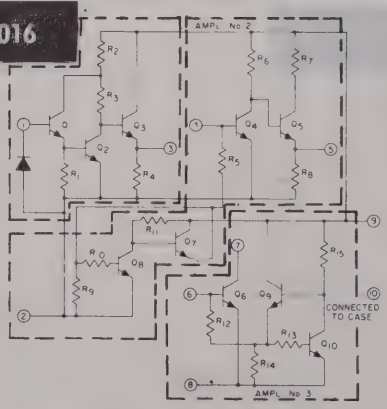
E013



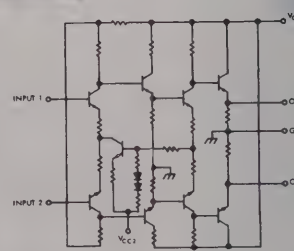
E014



E016

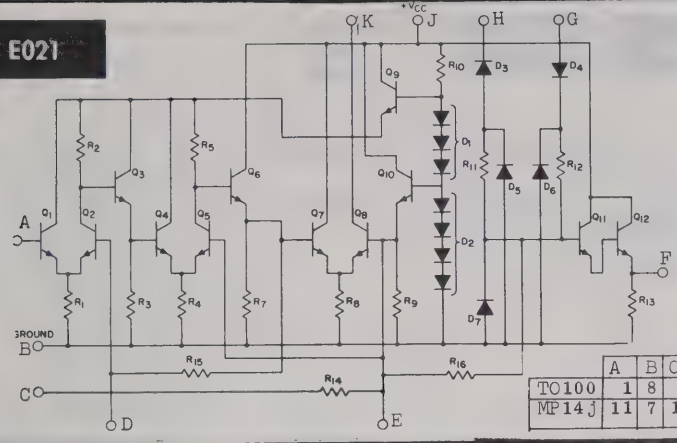


E019



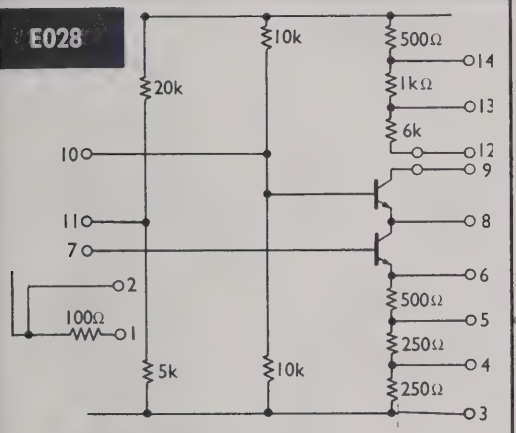
	I_{N1}	I_{N2}	V_{CC1}	V_{CC2}	O_{UT1}	O_{UT2}	O_{ND}
TO89 & TO91	1	5	3	10	9	6	7
CN & TO76	1	3	2	8	7	5	6

E021

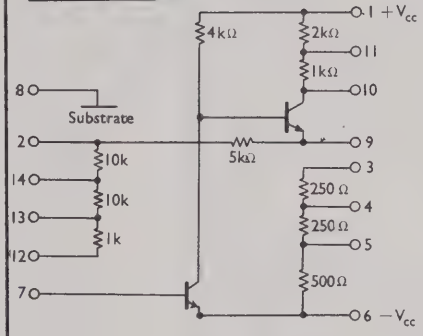


	A	B	C	D	E	F	G	H	J	K
TO100	1	8	2	3	4	9	7	6	10	5
MP14J	11	7	12	13	2	9	6	5	10	3

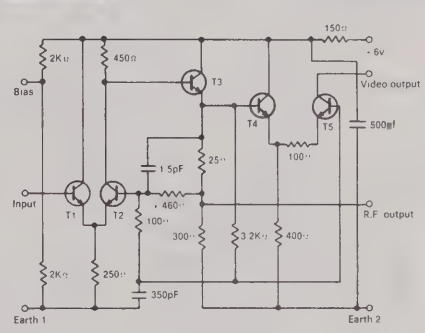
E028



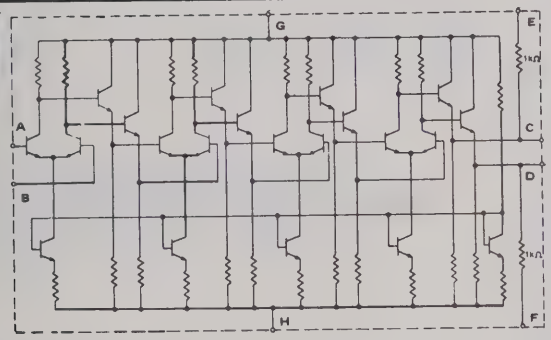
E029



E030

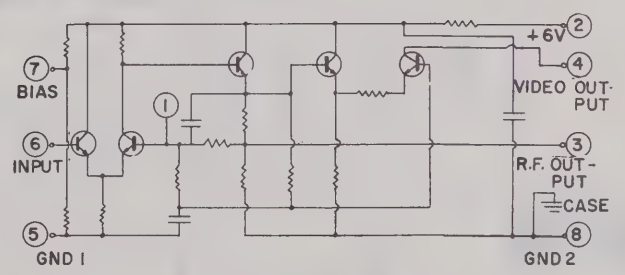


E031

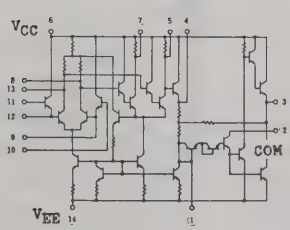


	A	B	C	D	E	F	G	H
E031	1	2	6	5	7	4	9	3
E031a	8	9	3	2	4	1	6	10

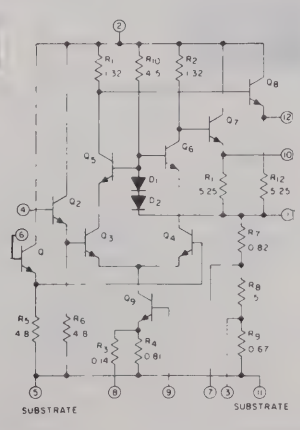
E032



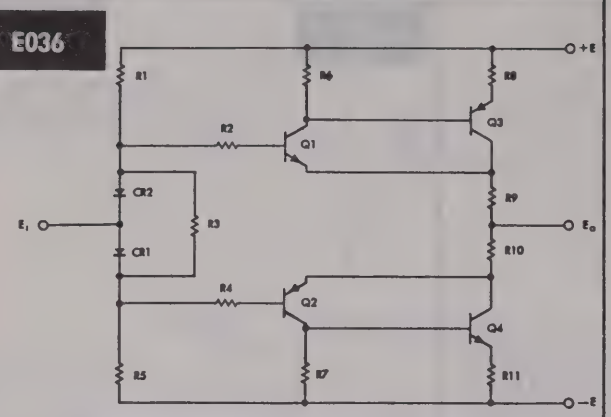
E034



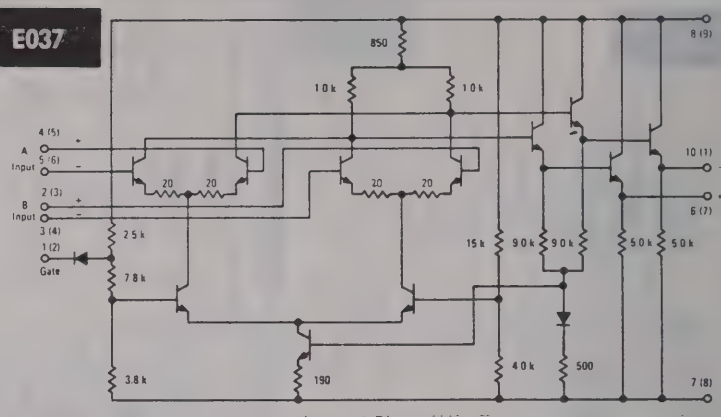
E035



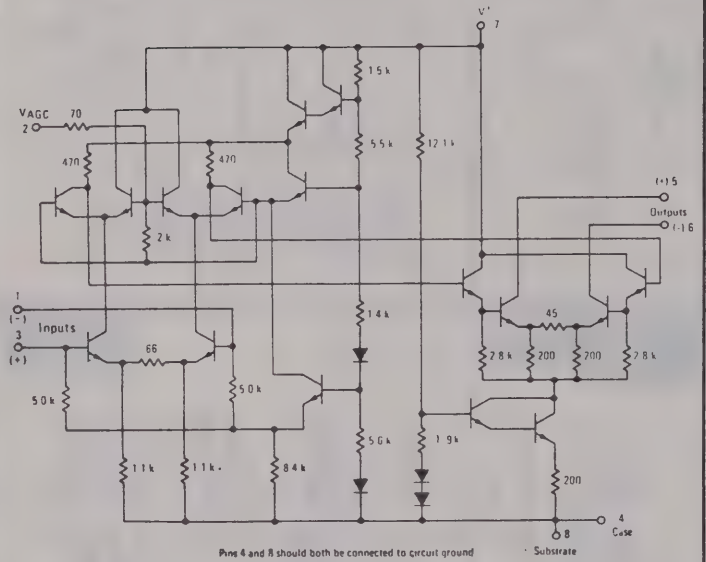
E036



E037

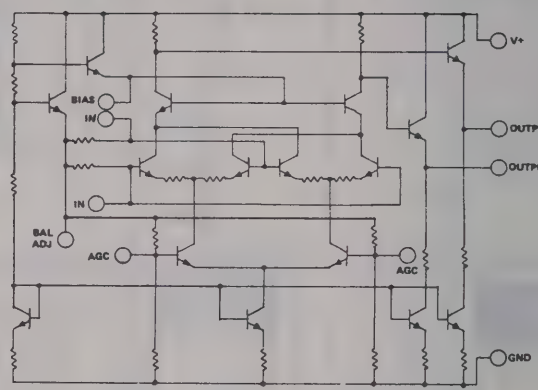


E038



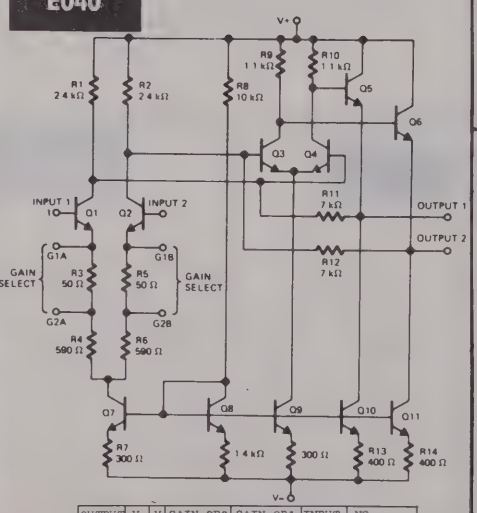
Pins 4 and 8 should both be connected to circuit ground

E039



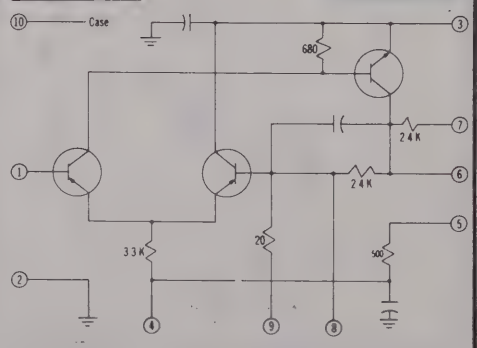
		V+	AGC	OUTPUT	BIAS	IN	BALANCE ADJ-	GND.	NC
TO100	CN	1	2,9	3,8	4	5,7	6	10	
MP39a	FP	1	3,12	4,11	5	7,10	8	14	2,6,9,13

E040

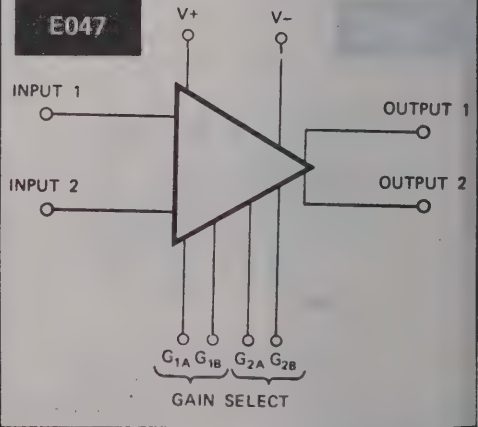


	OUTPUT .1	OUTPUT 2	V +	V -	GAIN OP2 A	GAIN OP2 B	GAIN OP1 A	GAIN OP1 B	INPUT 1	INPUT 2	NC
TO100 CN	7	6	8	5	10	3	9	4	1	2	
MP39a FP	8	7	10	5	12	3	11	4	14	1	2,6,9,13

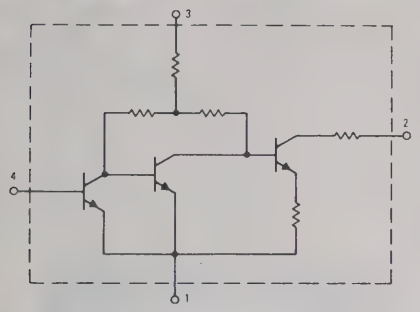
E043



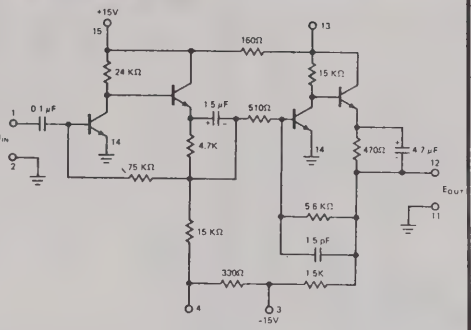
E047



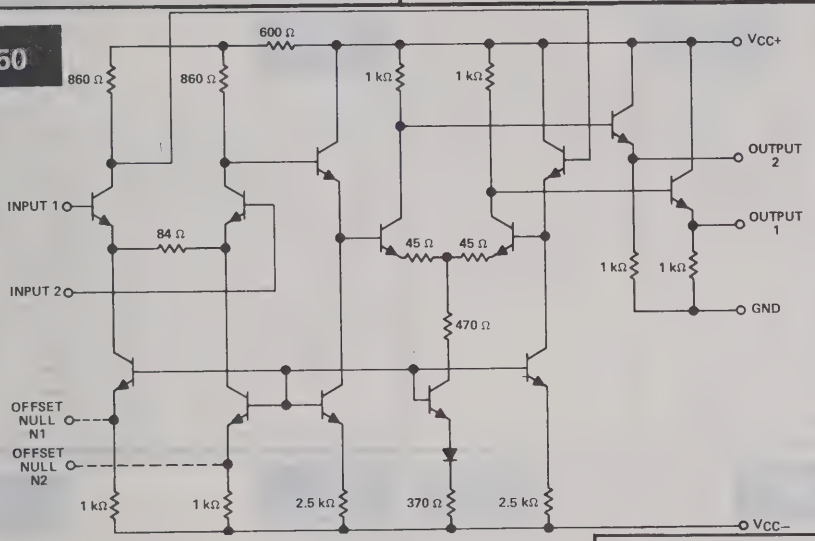
E048



E049

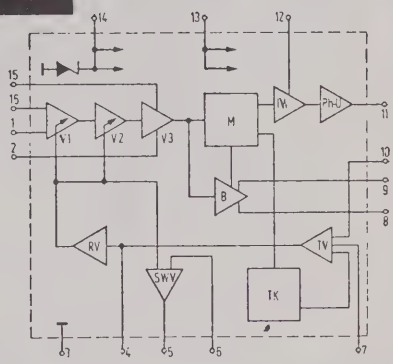


E050

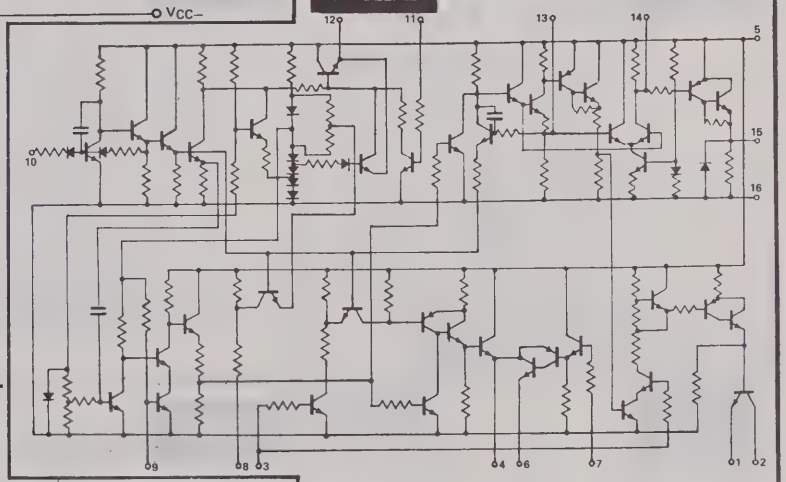


	PKG	INPUT		OFFSET		OUTPUT		VCC	VCC	GND
		1	2	N1	N2	1	2	+	-	
E050	CN	2	4	10	1	8	6	3	9	7
	MP	3	5	2	13	11	9	4	12	10
E050a	CN	1	3	NA	NA	7	5	2	8	6
	MP									

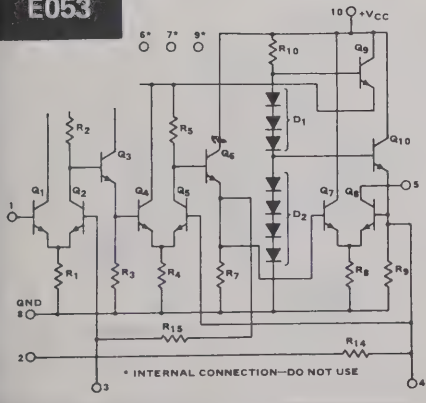
E051



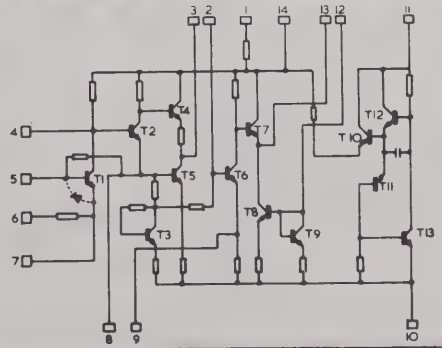
E052



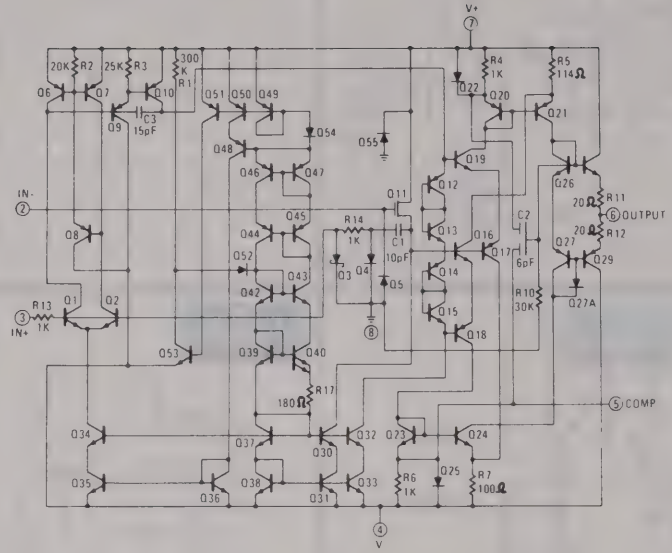
E053



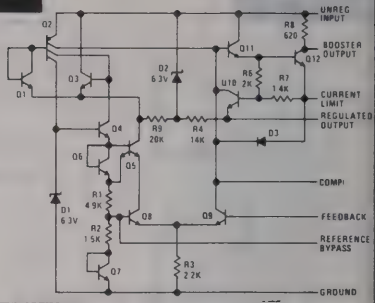
E054



E055

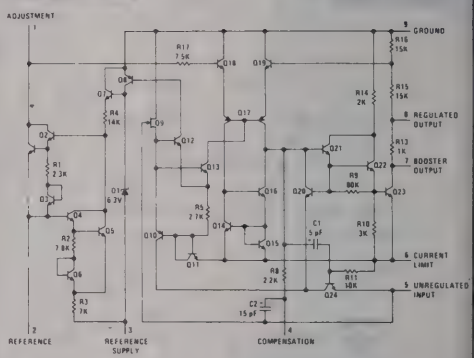


F001

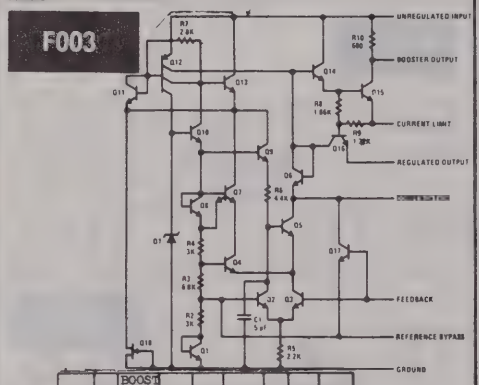


	PKG	IN	BOOST OUT	ILIM	OUT	COMP	FB	REF	GND
F001	CN	3	2	1	8	7	6	5	4
	FP	3	2	9	8	7	6	5	4
	MP	4	3	12	11	10	8	7	5

F002

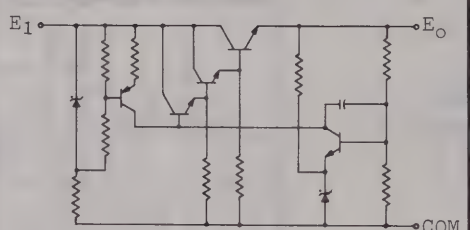


F003



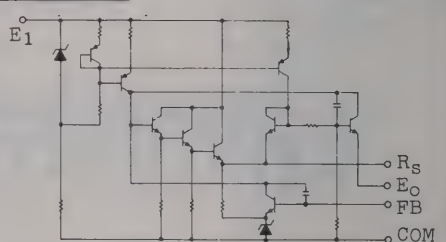
	PKG	IN	BOOST OUT	ILIM	OUT	COMP	FB	REF	GND
F003	CN	3	2	1	8	7	6	5	4
	FP	3	2	9	8	7	6	5	4
	MP	4	3	12	11	10	8	7	5

F005



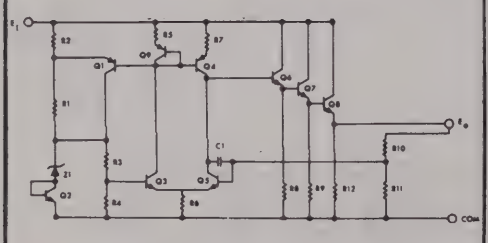
	E_1	E_0	COM
MP	1	3	6

F006

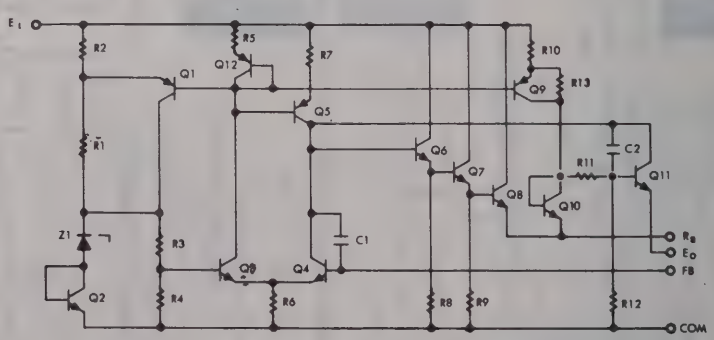


	E_1	FB	E_0	R_S	COM
MP	1	5	4	3	6

F010

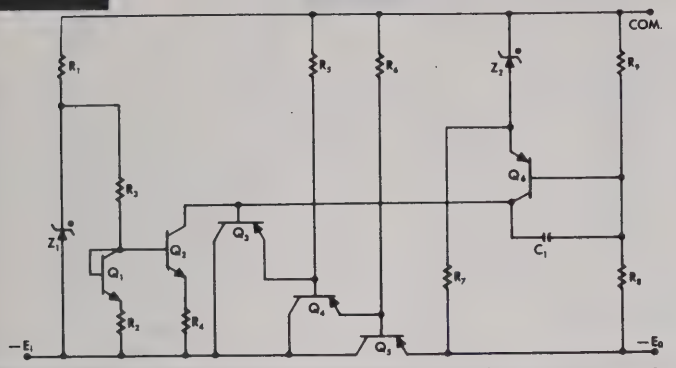


F011



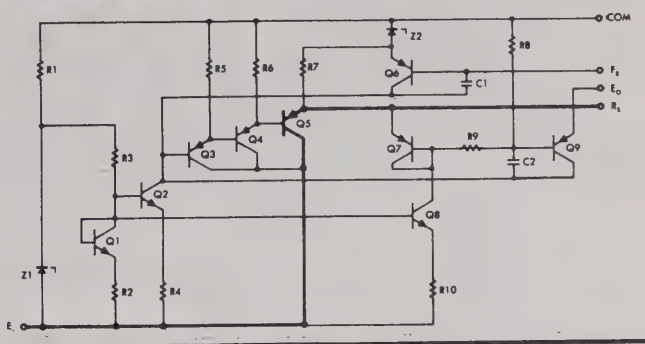
F012

	E_1	E_0	COM
MP	2	6	3



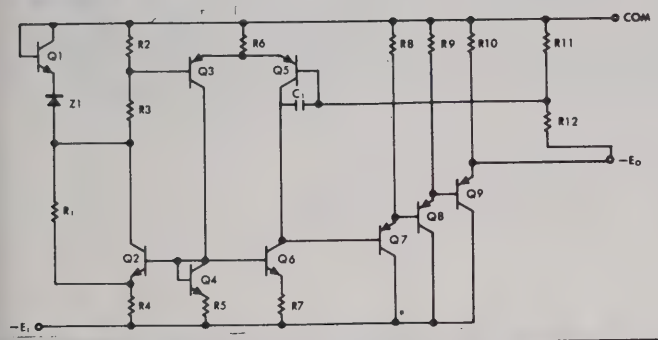
F013

	E_1	E_B	E_0	R_S	COM
MP	2	4	5	6	3



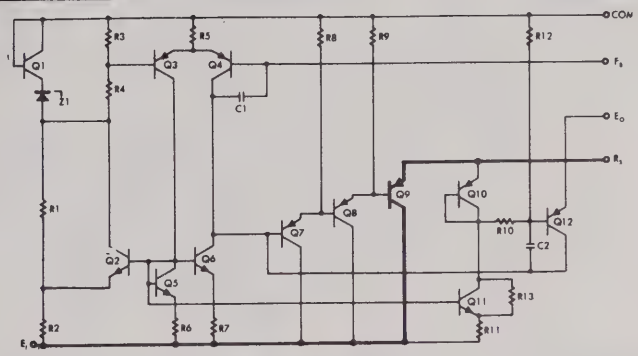
F014

	E_1	E_0	COM
MP	2	6	3

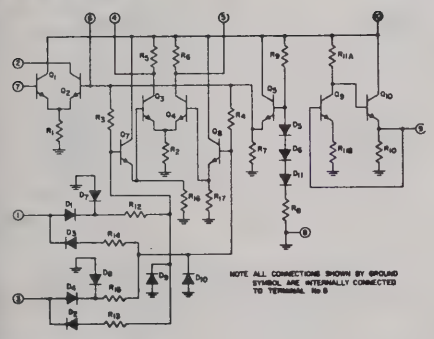


F015

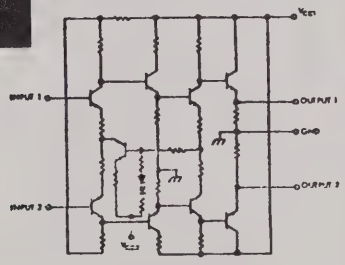
	E_1	E_B	E_0	R_S	COM
MP	2	4	5	6	3



F018

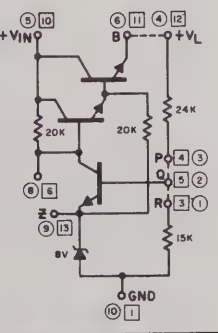


F019



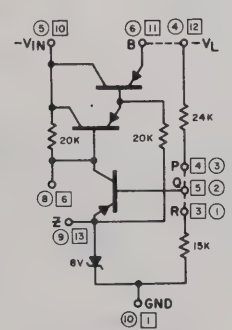
	I_{N1}	I_{N2}	V_{CC1}	V_{CC2}	O_{UT1}	O_{UT2}	G_{ND}
T089 & T091	1	5	3	10	9	6	7
CN & T076	1	3	2	8	7	5	6

F021

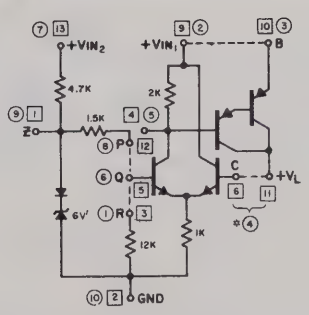


CN-PINS IN CIRCLES
FP-PINS IN SQUARES

F022

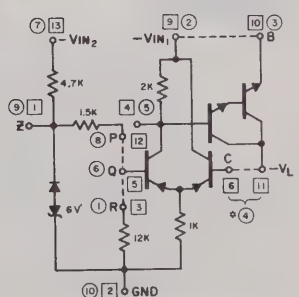


F023

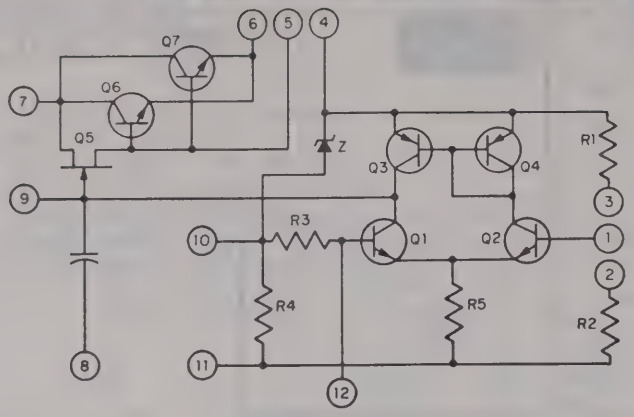


F024

CN-CIRCLES
FP-SQUARES

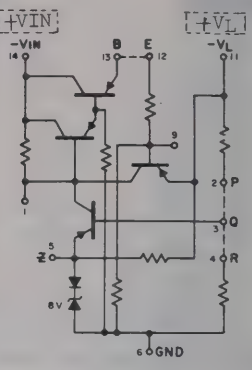


F025



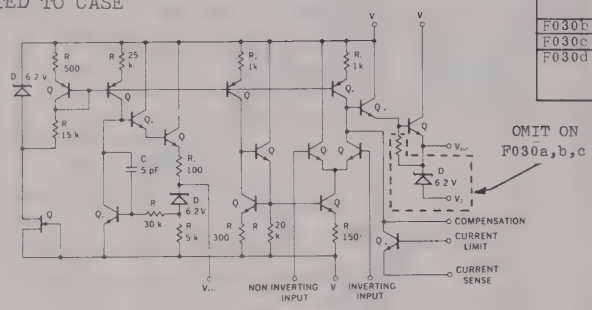
F027

F027 A IN DOTTED SECTION



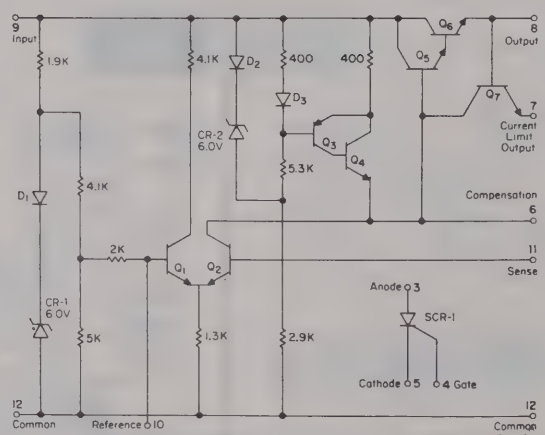
F030

* - CONNECTED TO CASE

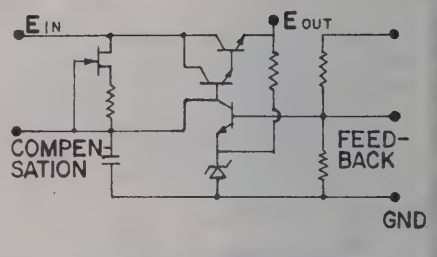


	PKG	CURRENT SENSE	INV IN	NON INV IN	Vref	V-	VZ	V OUT	VC	V	FREQ. COMP	CUR LIMIT	NC
F030,a	CN	1	2	3	4	5*		6	7	8	9	10	
	MP	3	4	5	6	7	13	12	11	10	9	2	1,8,14
	FP	3	4	5	6	7	9	10	11	12	13	2	1,8,14
F030b	CN	1	2	3	4	5	NA	6	7	8	9	10	NA
F030c	MP	3	4	5	6	7	9	10	11	12	13	2	1,8,14
F030d	MP or FP	3	4	5	6	7	9	10	11	12	13	2	1,14
	FP	1	2	3	4	5		6	7	8	9	10	

F036

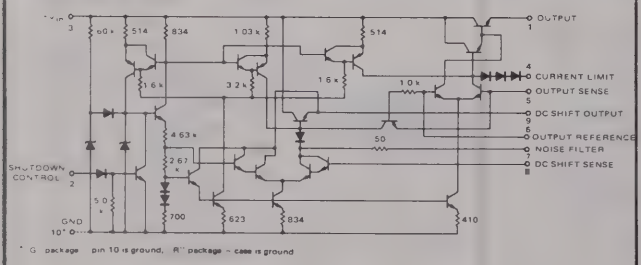


F040



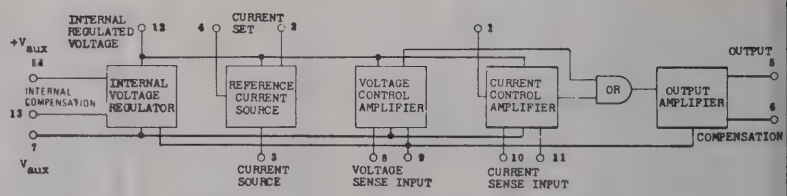
	CKT NO.	E IN	COMP	E OUT	SENSE	FEEDBACK	GND
F040	1	8	9	7	3	2	1
	2	11	12	10	6	5	4

F042

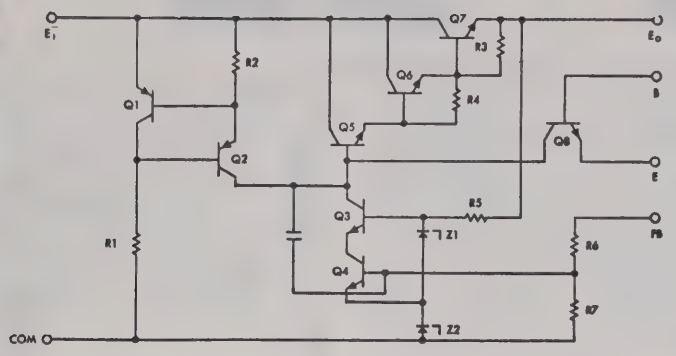


* G package pin 10 is ground, R" package = case is ground

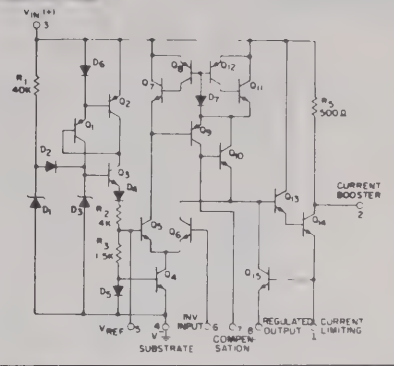
F043



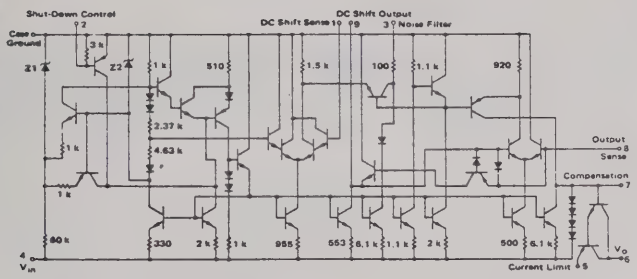
F044



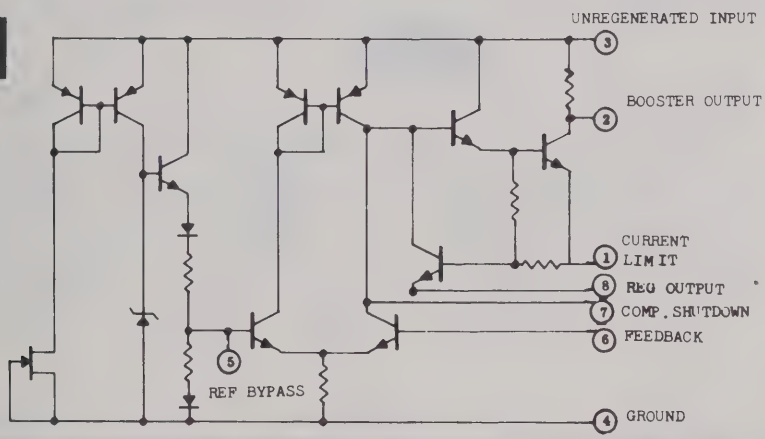
F060



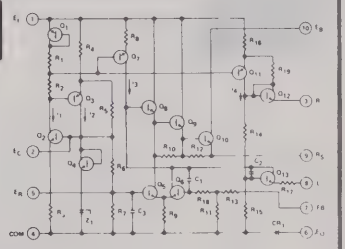
F064



F070

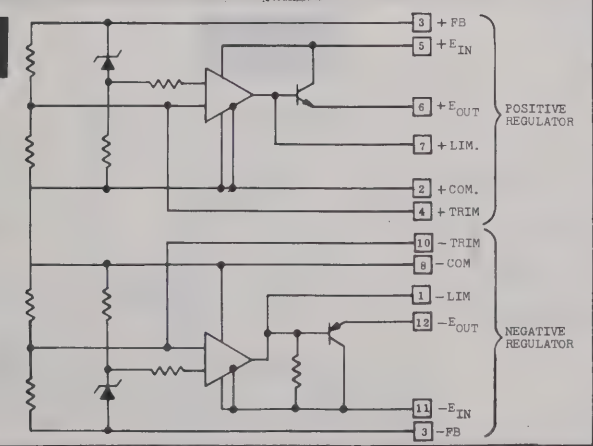


F072

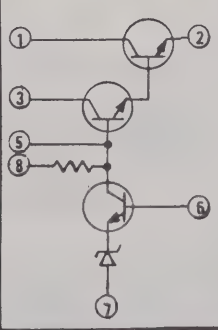


	E_1	E_C	E_R	COM	E_B	R	R_S	L	F_B	E_O	REMARKS
F072	1	2	5	4	10	3	9	8	7	6	
F072a	5	4	1	2	10	3	7	8	9	10	INTERNAL COMPONENT VALUES ARE NOT THE SAME, PNP and NPN DEVICES ARE INTERCHANGED

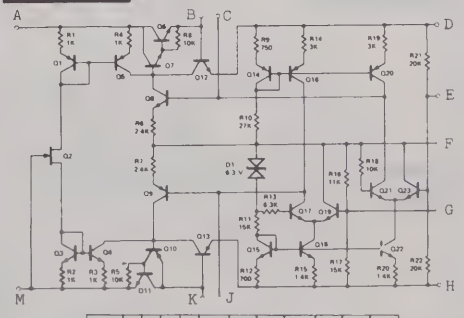
F073



F074

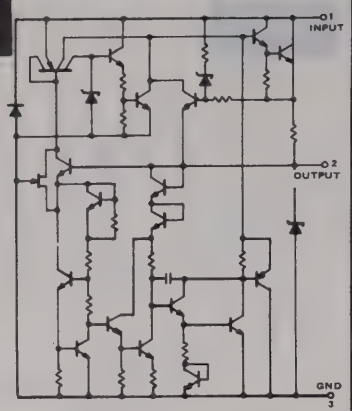


F076

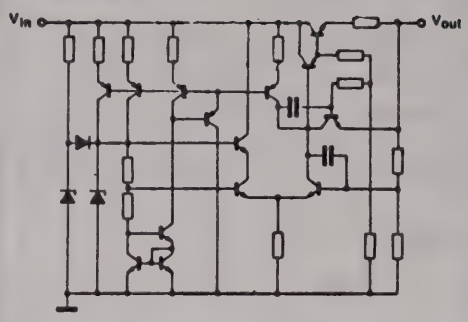


	PKG	A	B	C	D	E	F	G	H	J	K	M
F076	CN	4	3	1	2	NA	10	9	7	8	6	5
	MP	7	5	3	2	2	1	14	11	12	10	8

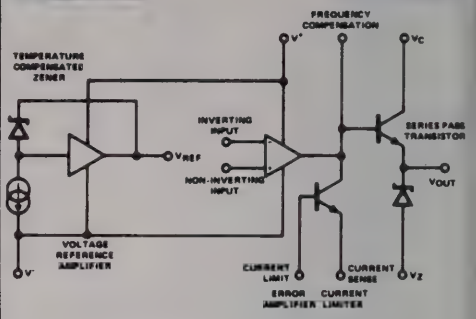
F077



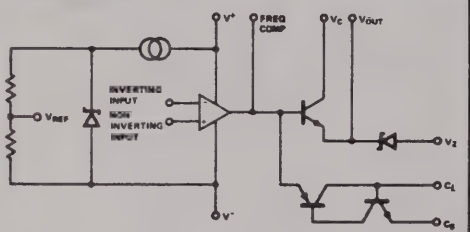
F078



F079

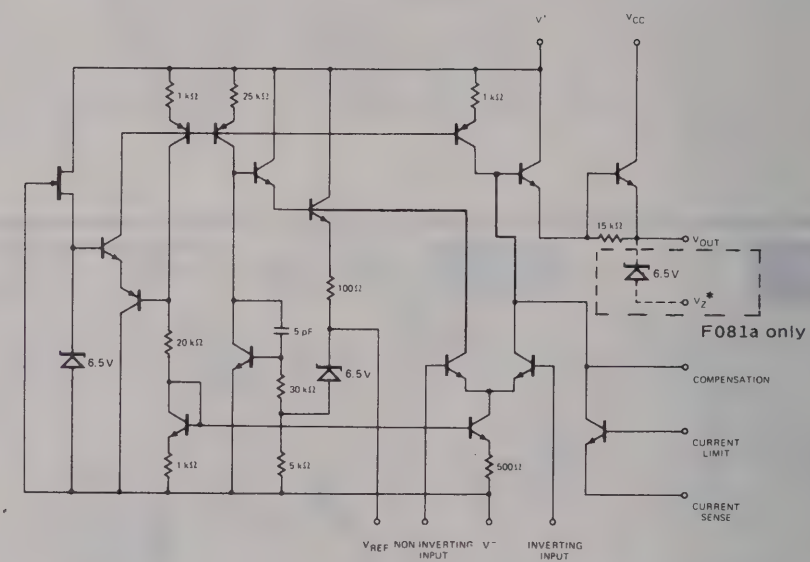


F080

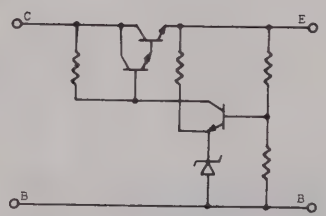


F081

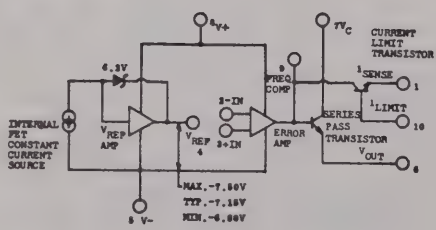
	PKG	V REF	NON INV IN	V-	INV IN	CUR SEN	CUR LIM	COMP	V_Z	V OUT	VCC	V+
F081	CN	4	3	5	2	1	10	9	NA	6	7	8
F081a	MP	6	5	7	4	3	2	13	9	10	11	12



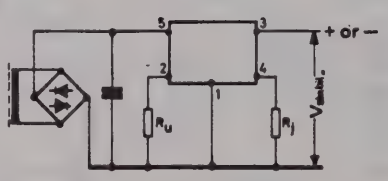
F082



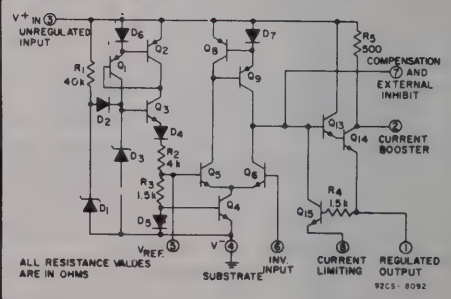
F085



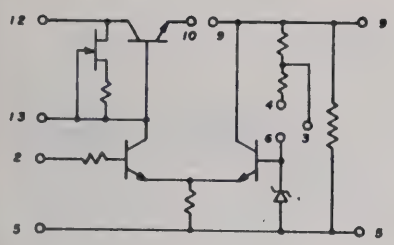
F086



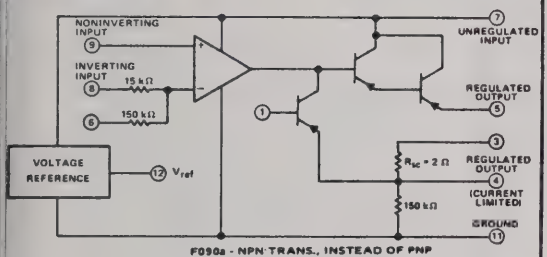
F088



F089

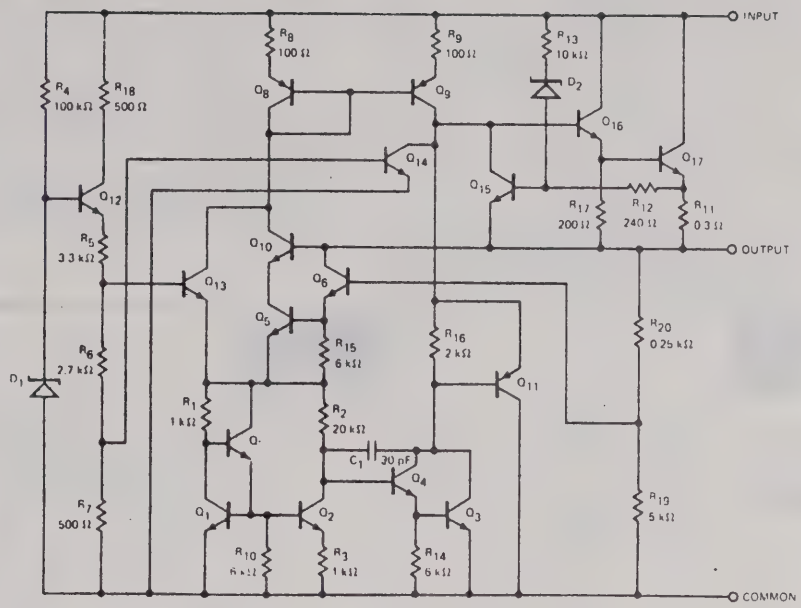


F090

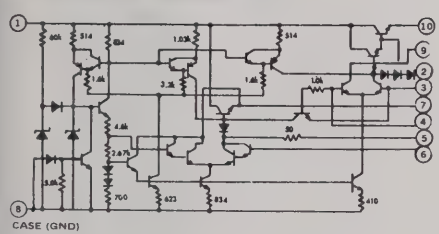


F090a - NPN TRANS., INSTEAD OF PNP

F091

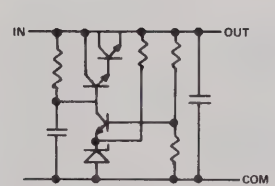


F094

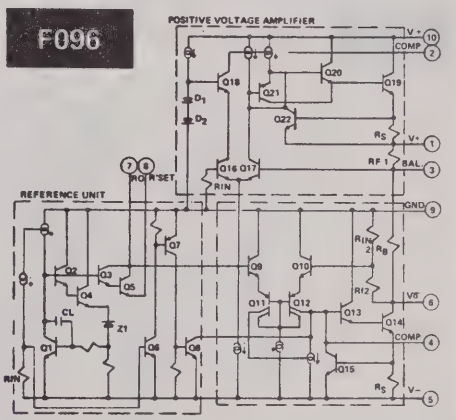


CASE (GND)

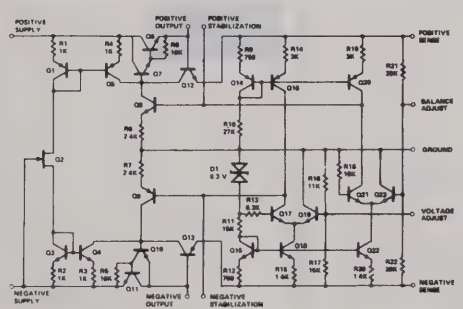
F095



F096

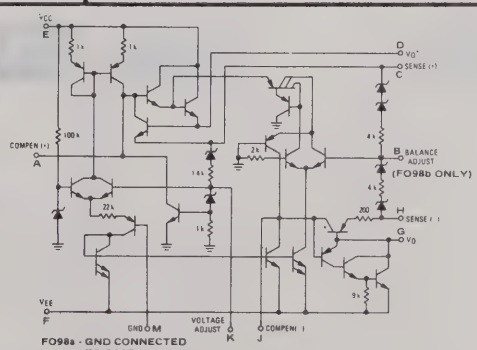


F097



	PKG	POS STAB	POS SENSE	POS OUT	V+	NEG V-	NEG STAB	NEG SENSE	NEG OUT	VOLT ADJ	BAL ADJ
F097	CN	1	2	3	4	5	8	7	6	9	NA
	MP	3	4	5	7	8	12	11	10	14	2

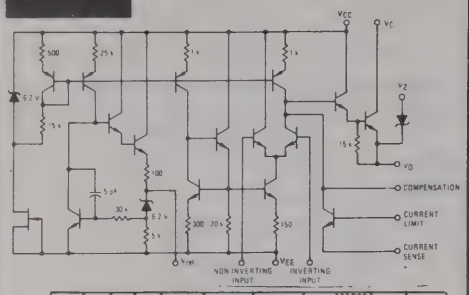
F098



F098a - GND CONNECTED TO CASE

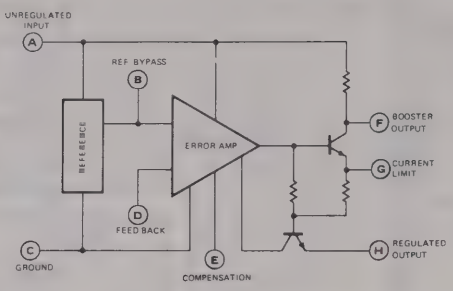
	A	B	C	D	E	F	G	H	J	K	M
F098	1		2	3	4	5	6	7	8	9	10
F098a	1		2	3	4	5	6	7	8	9	
F098b	3	2	4	5	7	8	10	11	12	14	1

F099



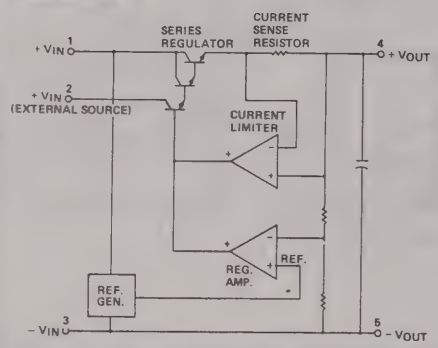
	VCC	VC	VZ	VO	COMP	CUR LIMIT	CUR SENSE	INV IN	NON INV IN	VEE	VREF
F099	K	J	G	H	L	A	B	C	D	F	E
F099a	12	11	9	10	13	2	3	4	5	7	6

F100

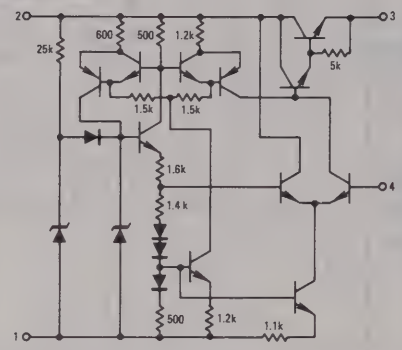


	PKG	A	B	C	D	E	F	G	H
F100	CN	3	5	4	6	7	2	1	8
	FP	3	5	4	10	9	2	7	6

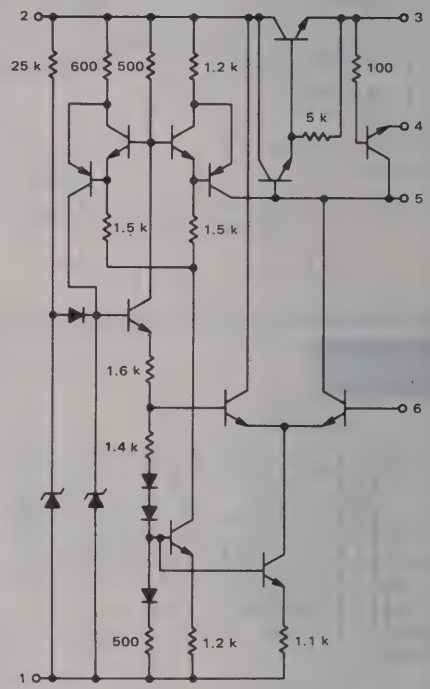
F101



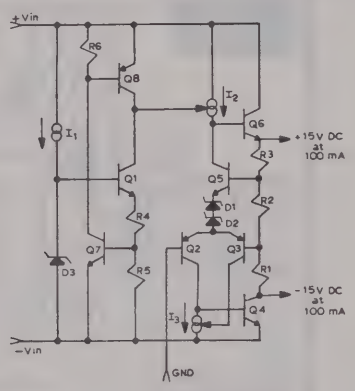
F102



F103



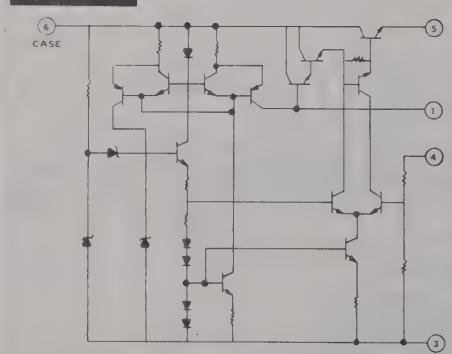
F104



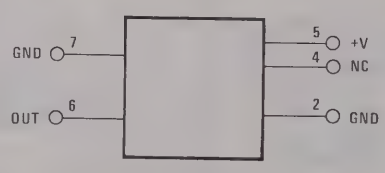
FUNCTION	PIN CONNECTIONS (TO-66)	(TO-99)	MP
+COMP*	7	1	1
GROUND	8	2	2
-COMP*	9	3	3
-VIN	CASE	4	4
-15V OUTPUT	1	5	5
BALANCE	2	6	6
+15V OUTPUT	3	7	7
+VIN	5	8	8

* EXTERNAL FREQUENCY COMPENSATION IS NOT REQUIRED IN NORMAL APPLICATIONS.

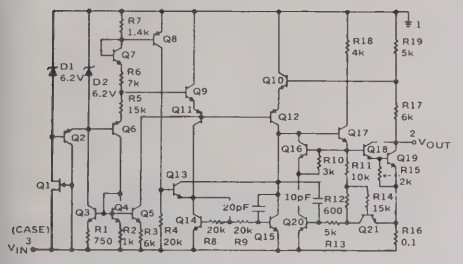
F106



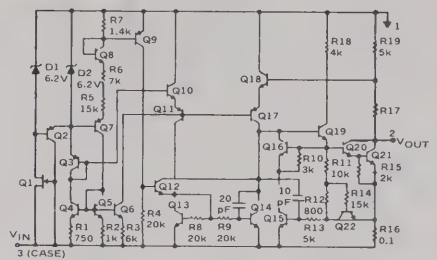
F107



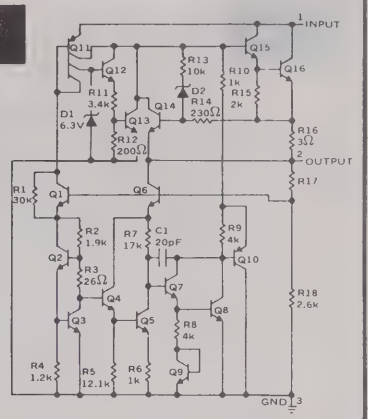
F108



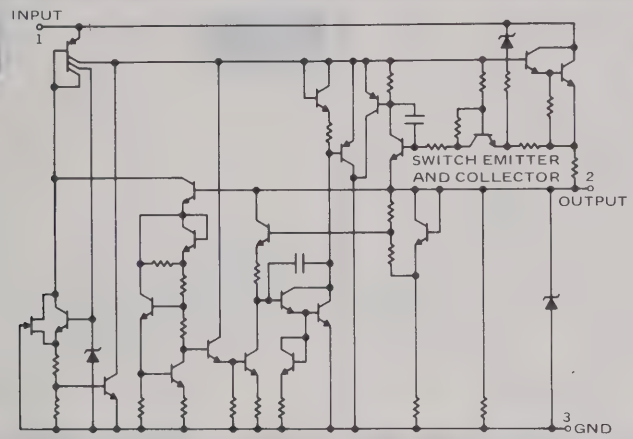
F109



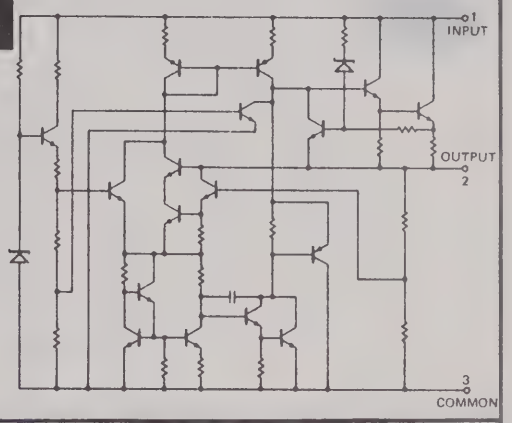
F110



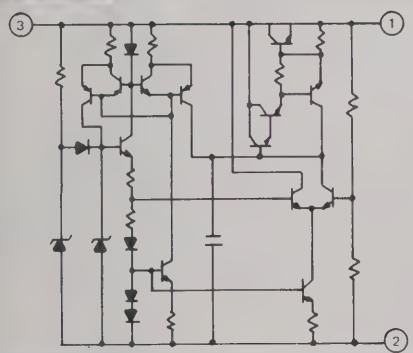
F111



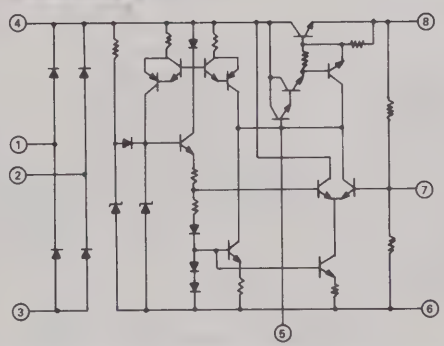
F112



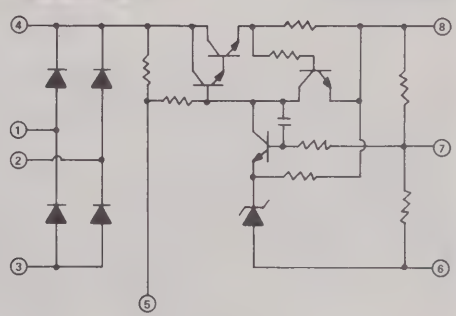
F113



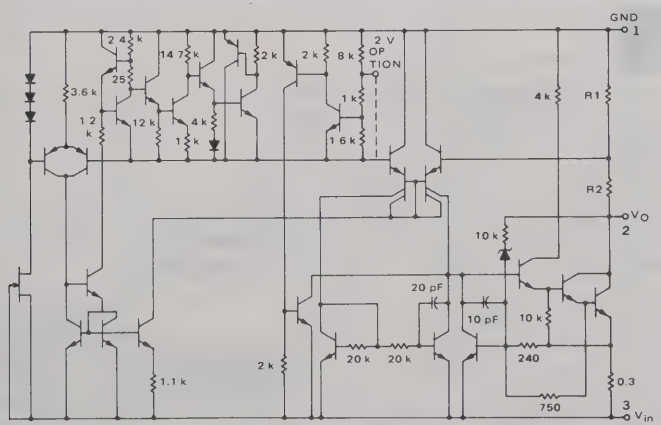
F114



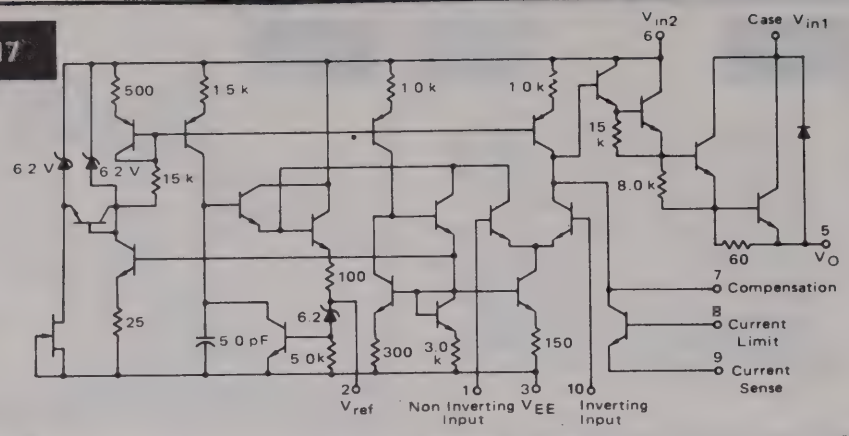
F115



F116

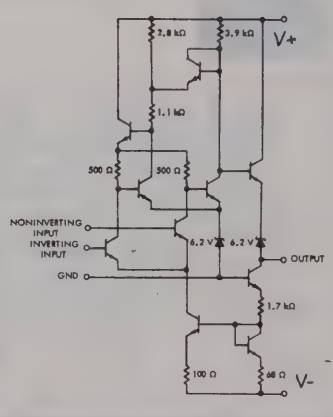


F117

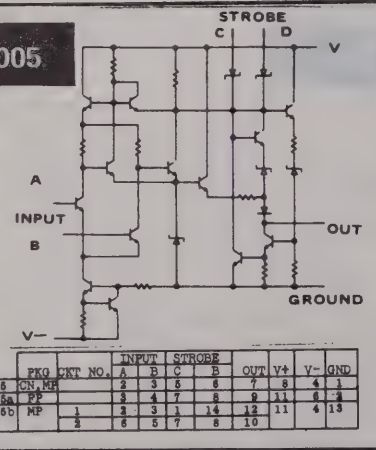


G001

	V+	V-	INPUT NON INV	INPUT INV	OUT	GND
TO89and TO91 FP	8	5	2	3	6	1
TO79and CN TO99	8	4	2	3	7	1
TO116	8	4	2	3	7	1
MP	11	6	3	4	9	2

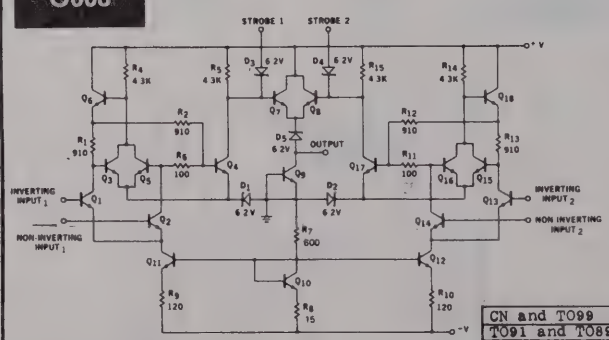


G005



	PKG	CKT NO.	INPUT A	INPUT B	STROBE C	STROBE D	OUT	V+	V-	GND
G005	CN, MP		2	3	5	6	7	8	4	1
G005a	FP		3	4	7	8	9	11	6	2
G005b	MP	1	2	3	1	14	12	11	4	13
		2	6	5	7	8	10			

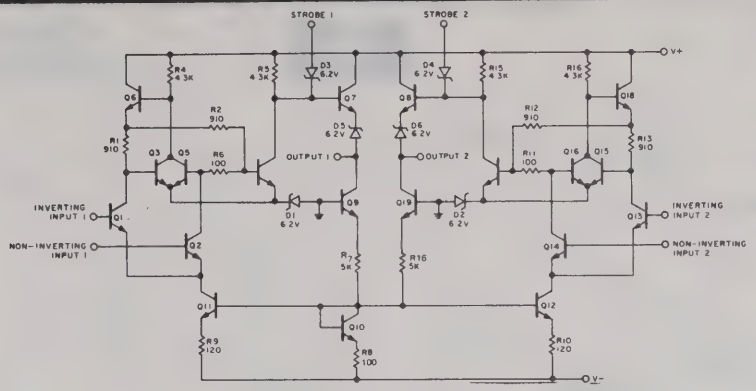
G006



	V+	V-	INPUT 1 INV	INPUT 1 NON INV	INPUT 2 INV	INPUT 2 NON INV	S 1	S 2	OUT	G
CN and TO99	10	5	3	4	7	6	2	8	9	1
TO91 and TO89	8	3	1	2	5	4	10	6	7	9
TO116 and MP	11	4	2	3	6	5	13	9	10	12

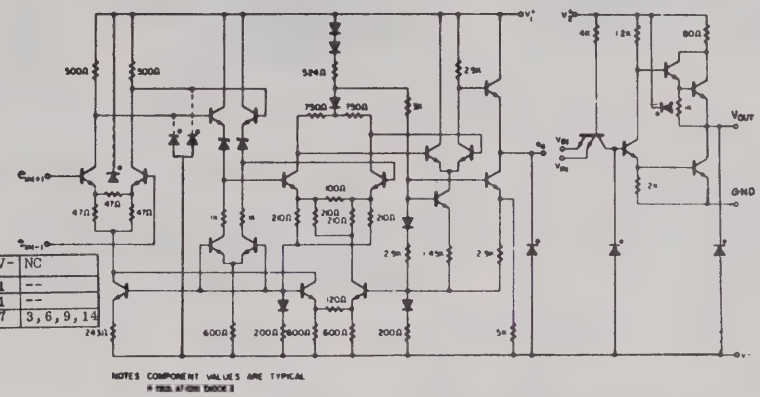
G007

	V+	V-	INPUT 1 INV	INPUT 1 NON INV	INV	NON INV	S1	S2	O1	O2	G
G007	11	4	2	3	6	5	13	8	10	9	12

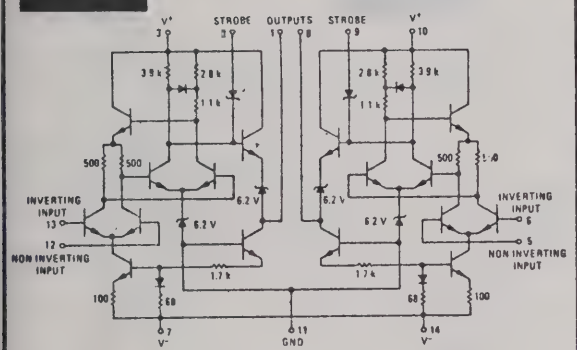


G009

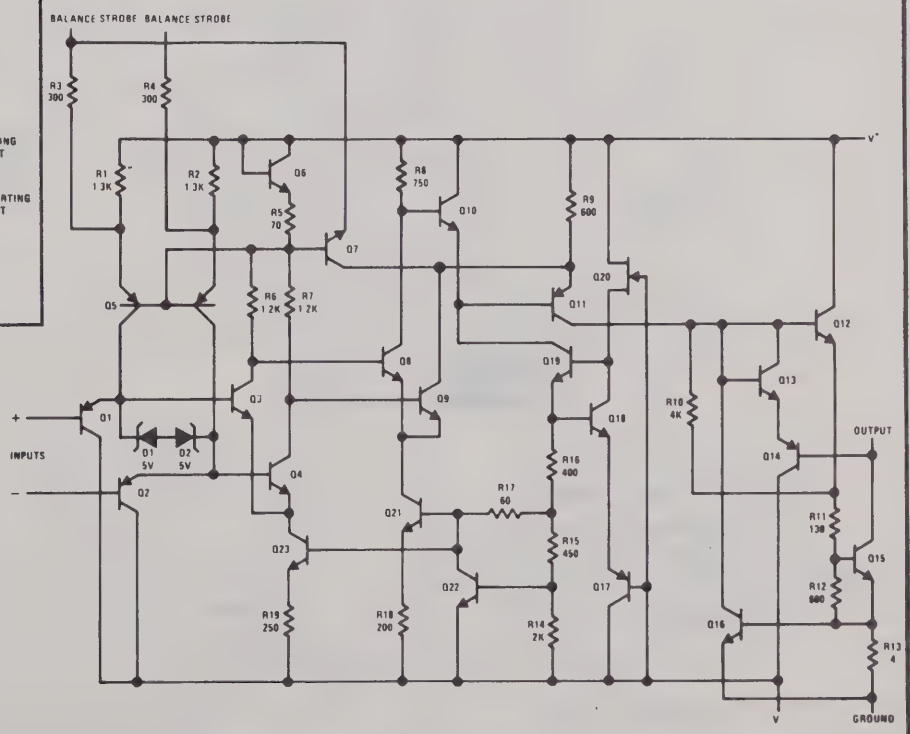
	e_{OUT}	V_{IN}	COM	V_0	V_1+	V_2+	e_{IN}	V-	NC
TO91	6	4,5	3	2	8	7	9,10	1	--
TO100	6	4,5	3	2	8	7	9,10	1	--
TO116	13	11,12	10	8	2	1	4,5	7	3,6,9,14



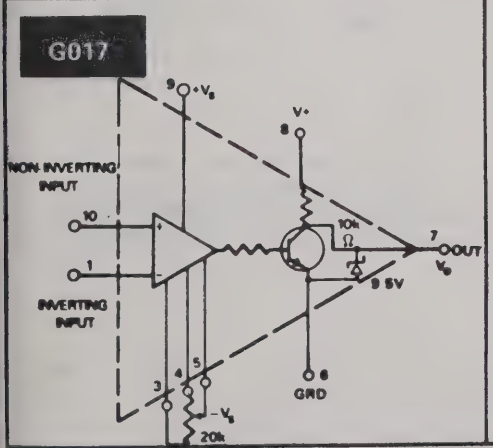
G012



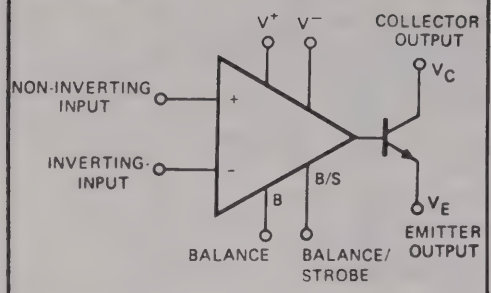
G016



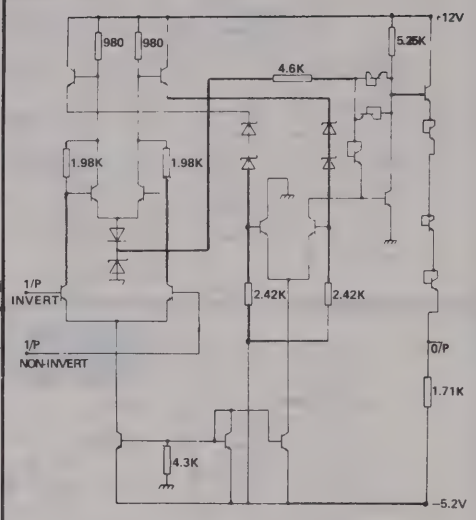
G017



G018

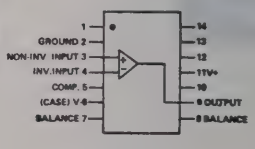


G019

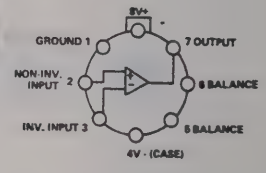


	CKT NO.	INVERT	NON INVERT	OV	O/P	12V	-5.2V
G019	1	13	12	5		3	11
	2	9	10	5	6	3	11

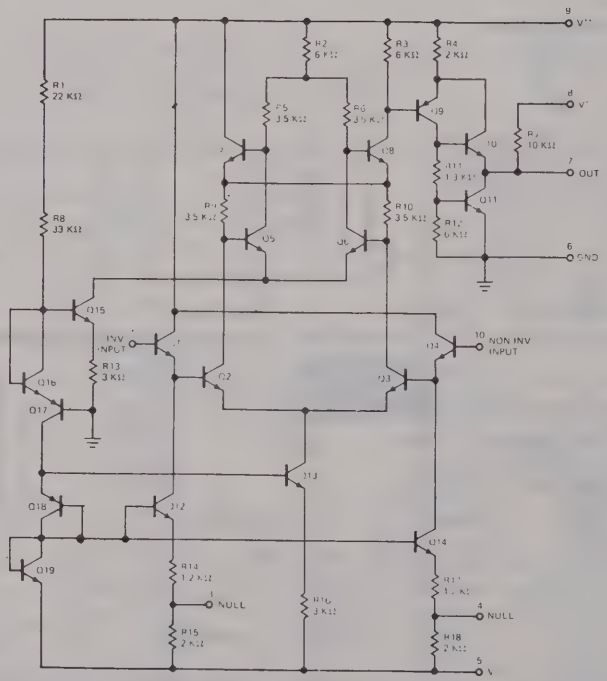
G022



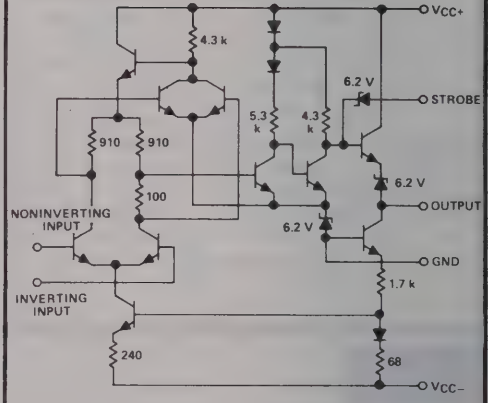
G023



G020

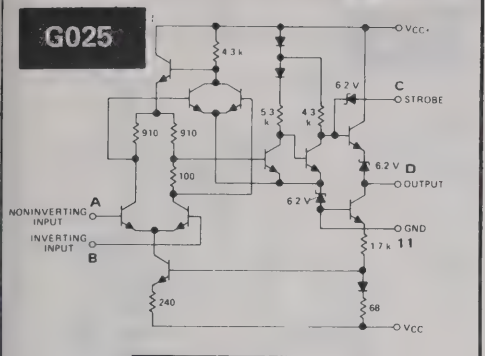


G024



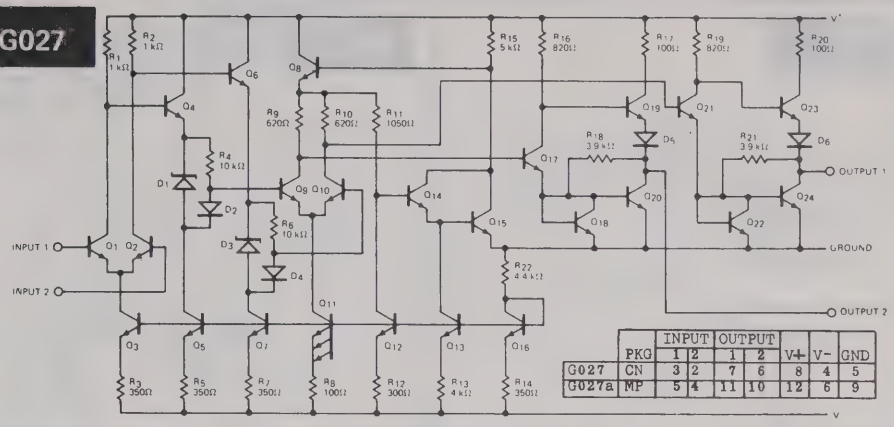
	PKG DESIG.	NON INVERT IN	INV IN	VCC-	OUT	STROBE	VCC
G024	L, P	2	3	4	7	6	8
	J, N, Z	3	4	6	9	10	11

G025



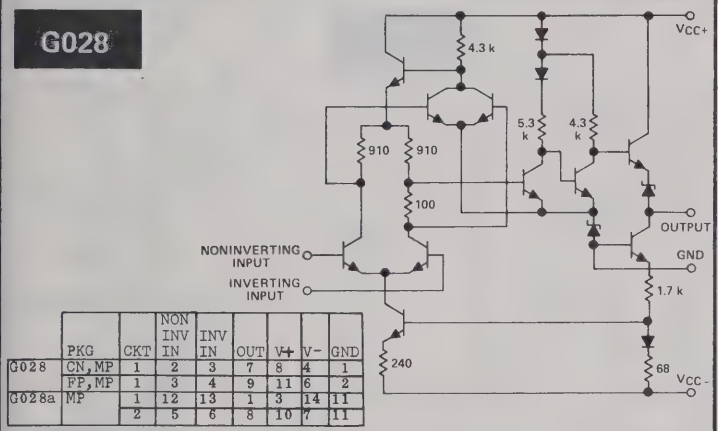
	CKT	A	B	C	D	VCC	VCC-
G025	1	12	13	2	1	3	14
	2	5	6	9	8	10	7

G027



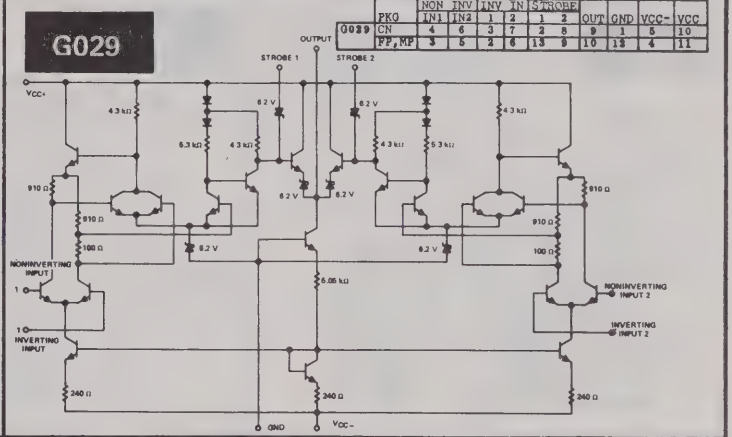
	PKG	INPUT 1	INPUT 2	OUTPUT 1	OUTPUT 2	V+	V-	GND
G027	CN	3	2	7	6	8	4	5
G027a	MP	5	4	11	10	12	6	9

G028



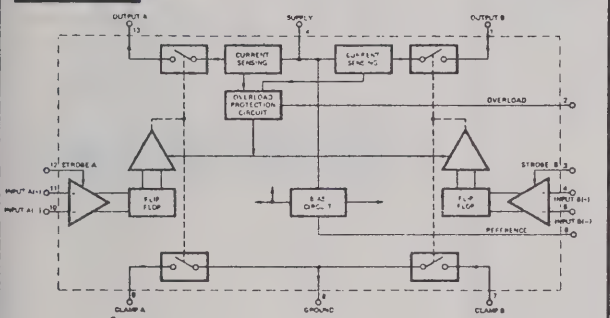
	PKG	CKT	NON INV IN	INV IN	OUT	V+	V-	GND
G028	CN, MP	1	2	3	7	8	4	1
	FP, MP	1	3	4	9	11	6	2
G028a	MP	1	12	13	1	3	14	11
		2	5	6	8	10	7	11

G029

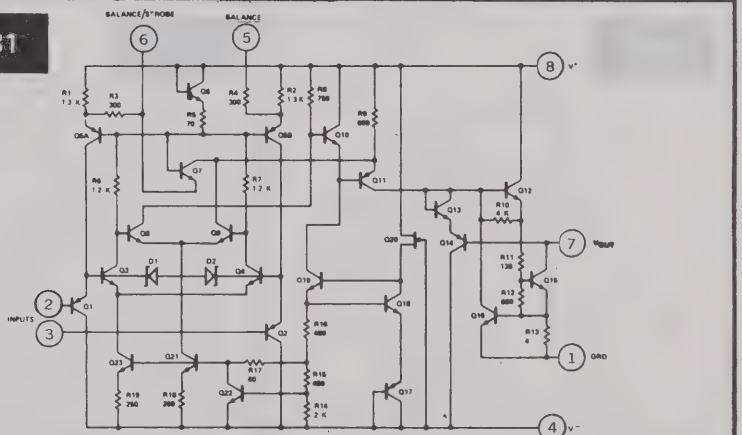


	PKG	NON INV IN1	INV IN1	INV IN2	STROBE 1	STROBE 2	OUT	GND	VCC-	VCC
G029	CN	4	6	3	7	2	8	9	1	5	10
	FP, MP	3	5	2	6	13	9	10	15	4	11

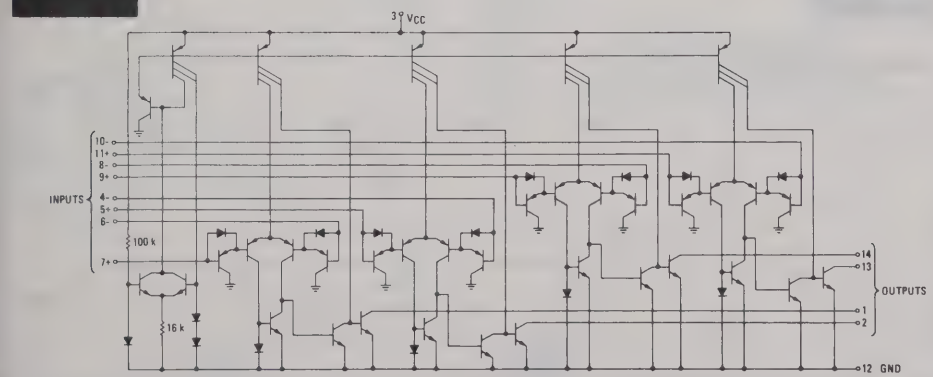
G030



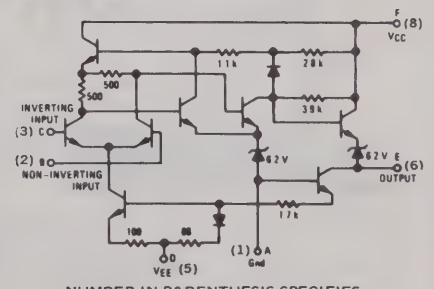
G031



G032

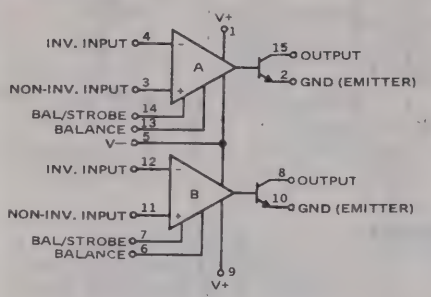


G033



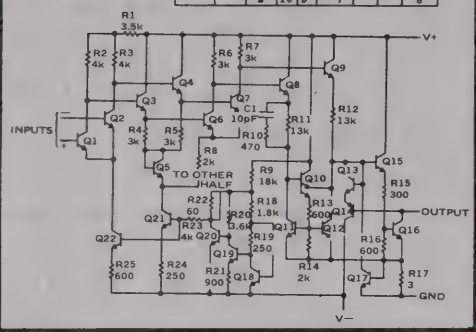
NUMBER IN PARENTHESIS SPECIFIES TO91 PIN CONNECTIONS.

G034

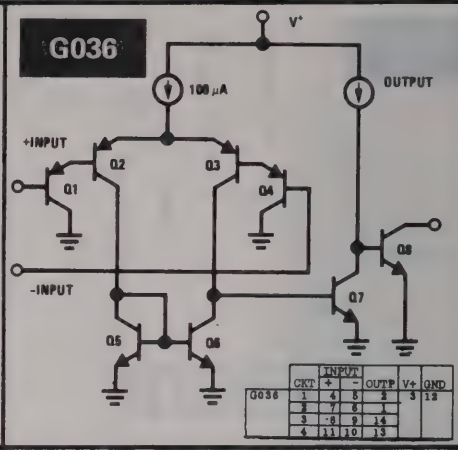


G035

	PKG	CKT	INP −	INP +	OUTP	V+	V−	GND
G035	CN	1	4	3	1	10	5	2
		2	9	8	6			7
	FP	1	4	3	1	10	5	2
		2	9	8	6			7
	MP	1	5	4	13	11	6	3
		2	10	9	7			8



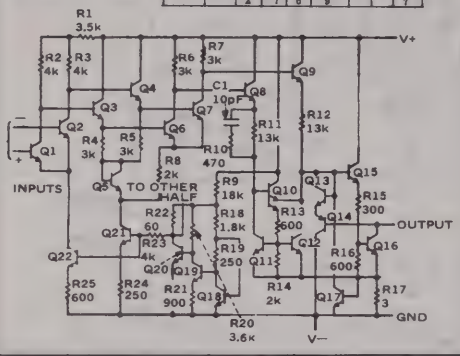
G036



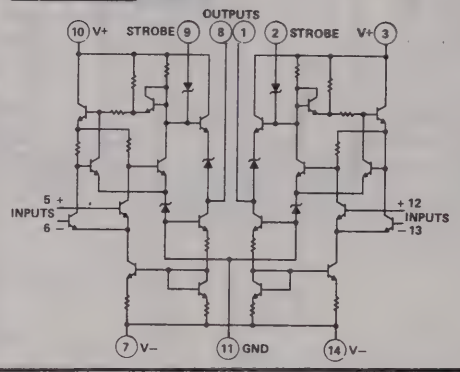
	INPUT CKT	INPUT +	INPUT −	OUTP	V+	GND
G036	1	4	5	2	3	12
	2	7	6	1		
	3	8	9	14		
	4	11	10	13		

G037

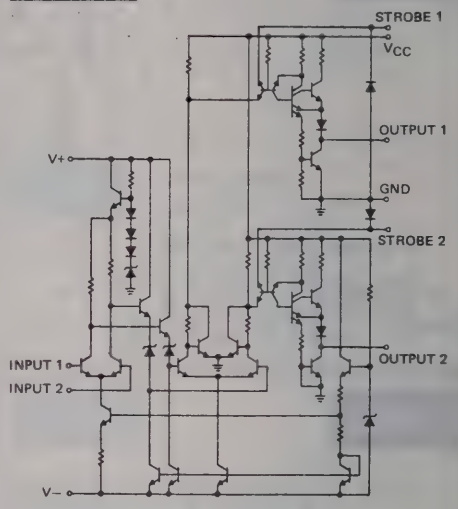
	PKG	CKT	INPUT +	INPUT −	OUTP	V+	V−	GND
G037	MP	1	4	5	12	11	6	3
		2	9	10	7			8
	CN	1	3	4	1	10	5	2
		2	7	6	9			7



G038

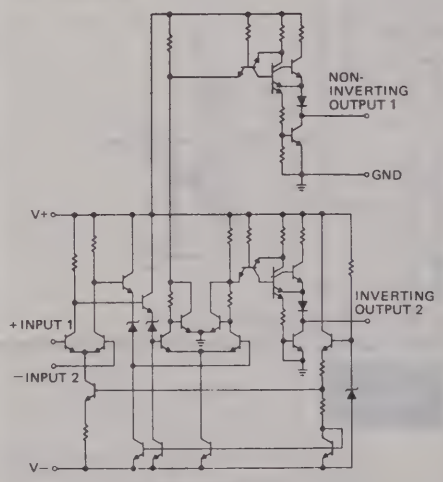


G039



	PKG	V+	INPUT 1	INPUT 2	V−	STROBE 1	STROBE 2	OUTPUT 1	OUTPUT 2	GND	VCC
G039	FP/MP	1	3	4	6	13	8	11	9	10	14
	CN	10	1	2	3	8	4	7	5	6	9

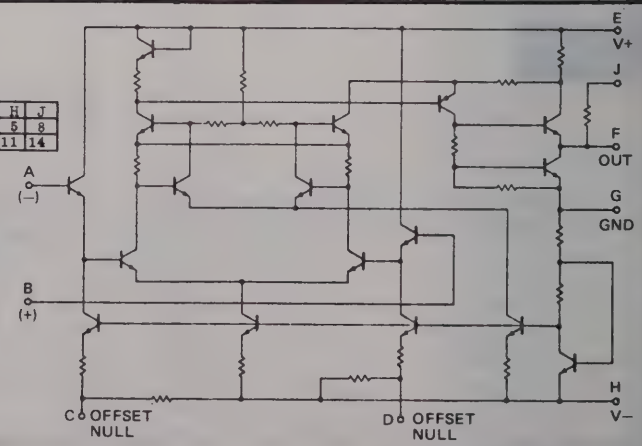
G040



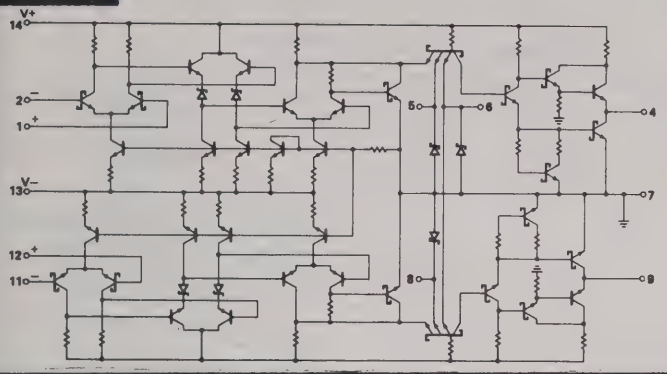
	PKG	INPUT 1	INPUT 2	V−	GND	OUTPUT 1	OUTPUT 2	V+
G040	CN	3	2	4	5	7	6	8
	FP/MP	5	4	6	9	11	10	12

G041

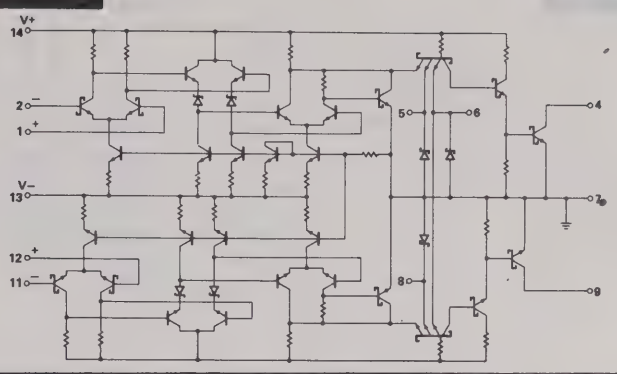
		A	B	C	D	E	F	G	H	J
G041	CN	1	10	3	4	9	7	6	5	8
	MP	7	5	8	10	3	13	12	11	14



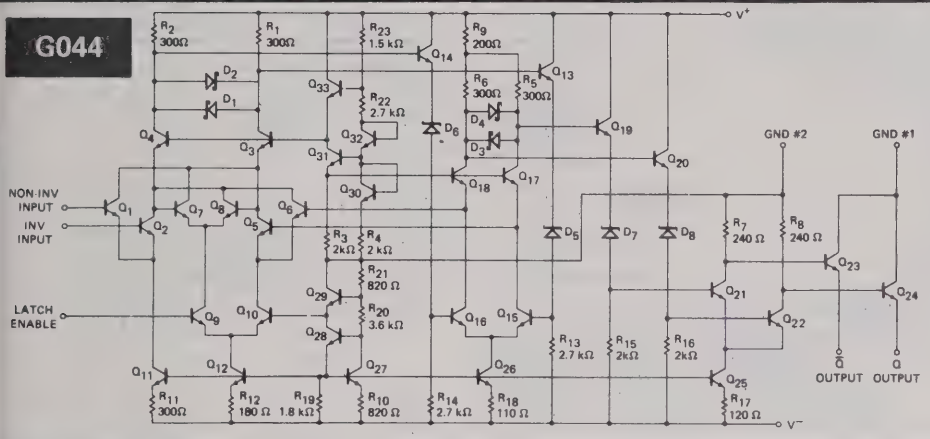
G042



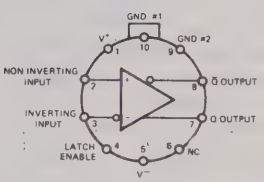
G043



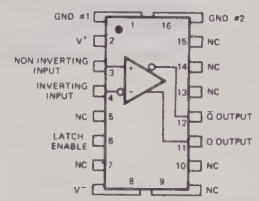
G044



Metal Can

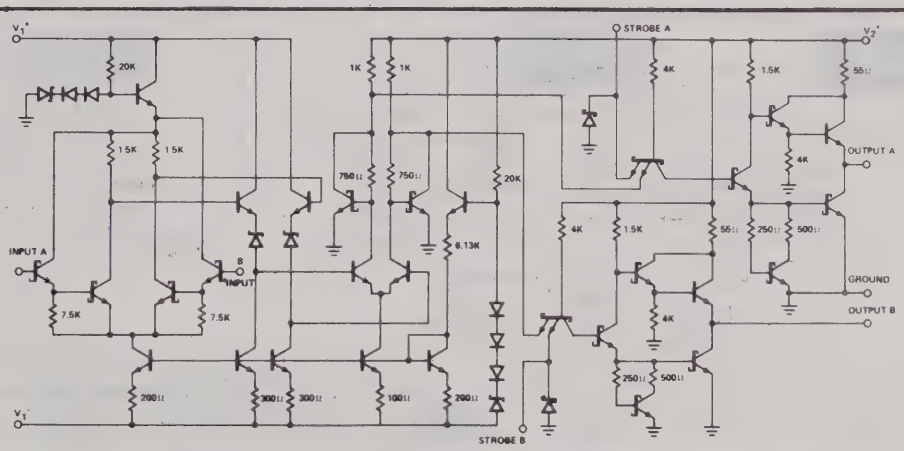


Dual-In-Line



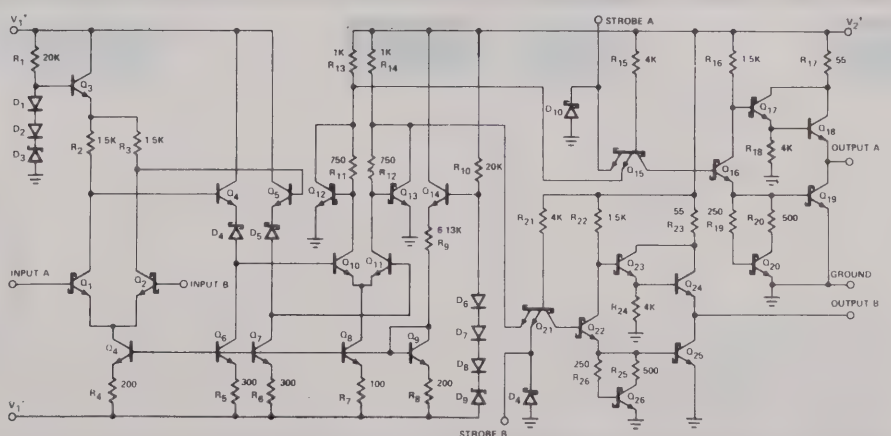
G045

1. Input A
2. Input B
3. V_1^-
4. Strobe B
5. Output B
6. Ground
7. Output A
8. Strobe A
9. V_2^+
10. V_1^+

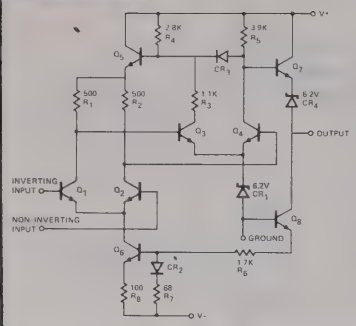


G046

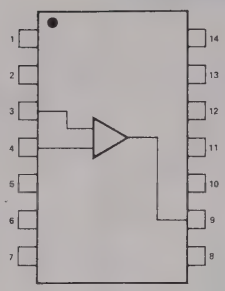
1. Input A
2. Input B
3. V_1^-
4. Strobe B
5. Output B
6. Ground
7. Output A
8. Strobe A
9. V_2^+
10. V_1^+



G047

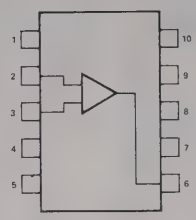


A PACKAGE
(Top View)



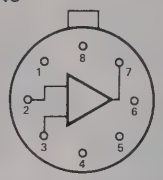
1. NC
2. Ground
3. Non-Inverting Input
4. Inverting Input
5. NC
6. V^-
7. NC
8. NC
9. Output
10. NC
11. V^+
12. NC
13. NC
14. NC

Q PACKAGE



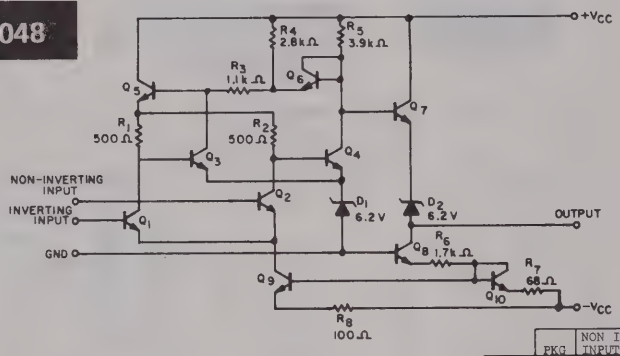
1. Ground
2. Non-Inverting Input
3. Inverting Input
4. NC
5. V^-
6. Output
7. NC
8. V^+
9. NC
10. NC

T PACKAGE

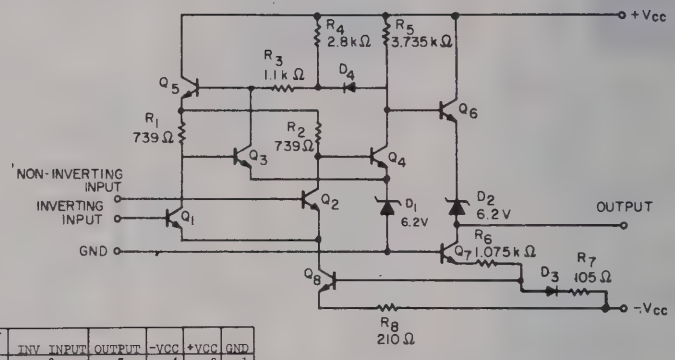


1. Ground
2. Non-Inverting Input
3. Inverting Input
4. V^-
5. NC
6. NC
7. Output
8. V^+

G048



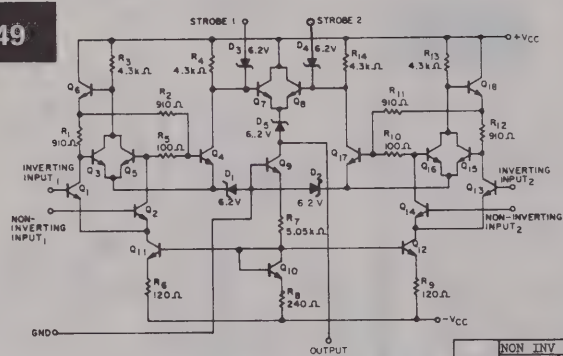
Circuit A



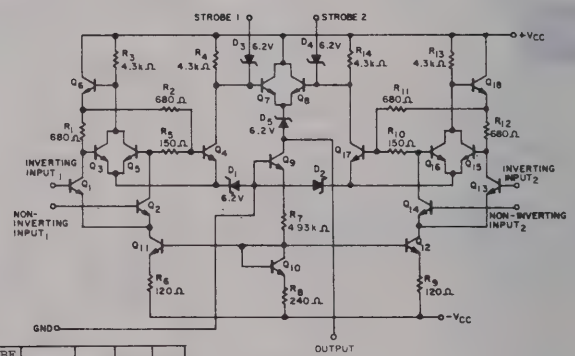
Circuit B

	PKG	NON INV INPUT	INV INPUT	OUTPUT	-VCC	+VCC	GND
G048	CN	2	3	7	4	8	1
G048a	MP	3	4	9	6	11	2
G048b	FP	2	3	6	5	8	1

G049



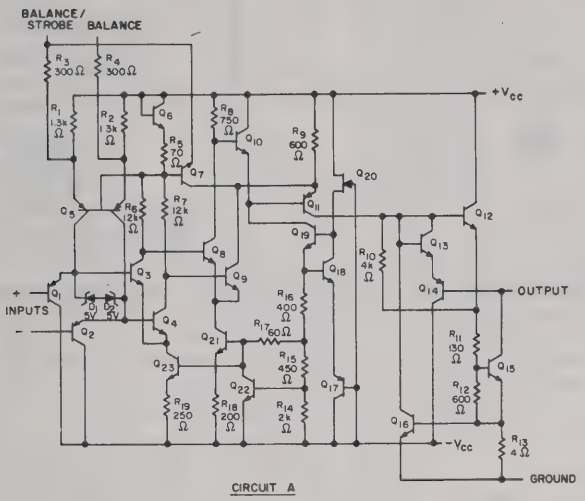
CIRCUIT A



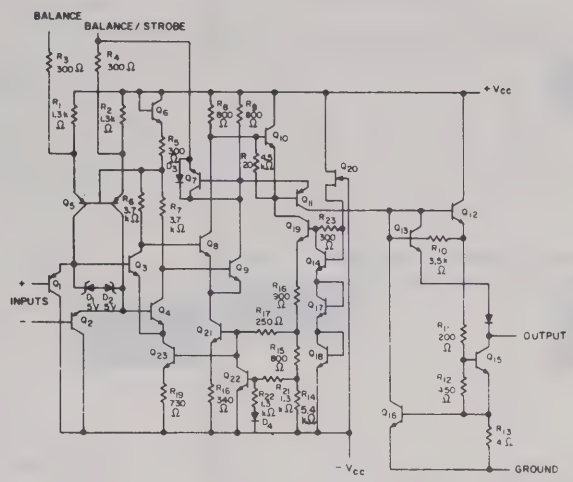
CIRCUIT B

	PCKG	NON INV INP 1	NON INV INP 2	INV INP 1	INV INP 2	STROBE 1	STROBE 2	OUTPUT	+VCC	-VCC	GND
G049	CN	1	8	3	7	2	6	9	10	5	1
G049a	MP	3	5	2	6	13	9	10	11	4	12
G049b	FP	2	4	1	5	10	6	7	8	3	9

G050



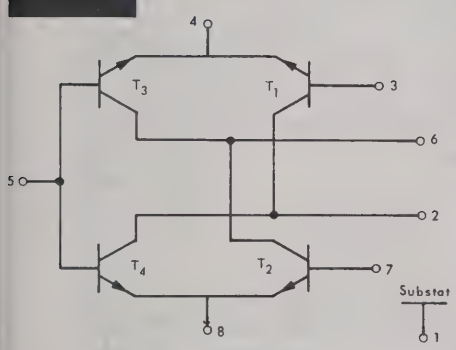
CIRCUIT A



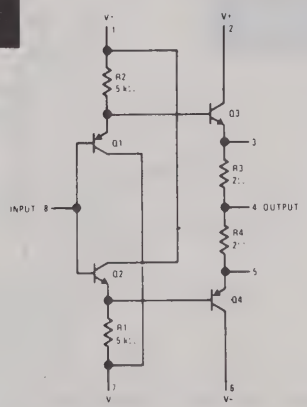
CIRCUIT B

	PCKG	NON INV INP	INV INP	BALANCE	STROBE/ BALANCE	OUTPUT	+VCC	-VCC	GND
G050	CN	2	3	5	6	7	8	4	1
G050a	FP	2	3	6	7	9	10	5	1

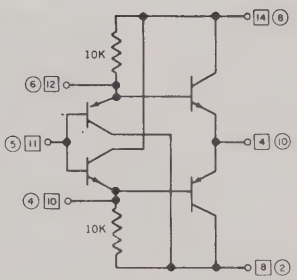
Z001



Z003



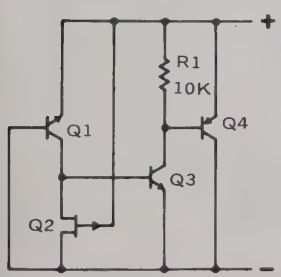
Z004



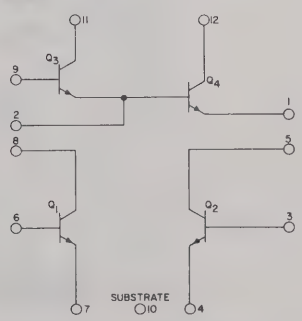
○ denotes TO-5 pins □ denotes ⅜" x ⅜" FP pins

Z005

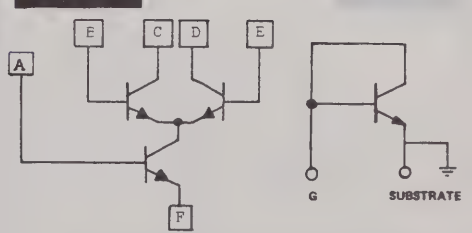
Note: Pin 2 connected to Case.



Z007

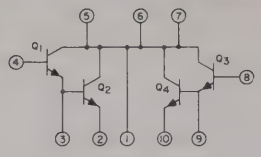


Z008

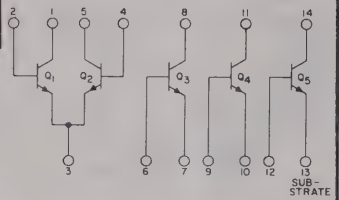


	CKT	A	B	C	D	E	F	G	SUB
Z008	1	3	2	1	14	13	4	10	5
	2	11	9	8	7	6	12	—	—
Z008a	1	2	1	12	11	10	3	—	—
	2	8	7	6	5	4	9	—	—
Z008b	1	2	1	12	11	10	3 SUB	NA	NA
	2	8	7	6	5	4		NA	NA

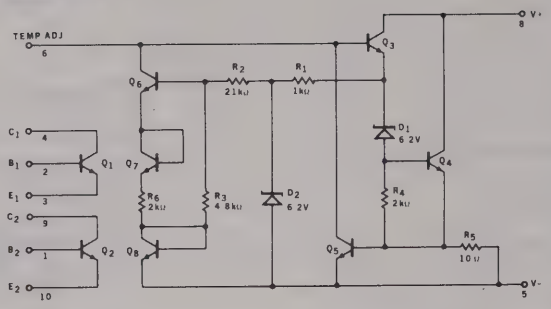
Z009



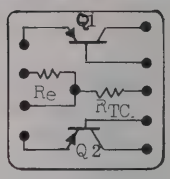
Z010



Z011

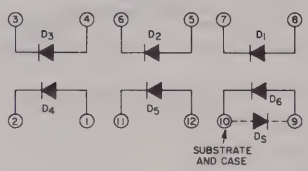


Z012

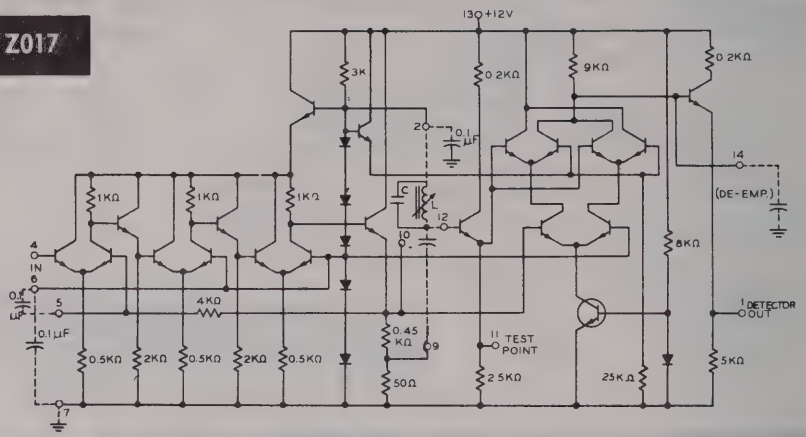


TYPE TRANSISTORS Q1 AND Q2	
751P	PNP
751N	NPN

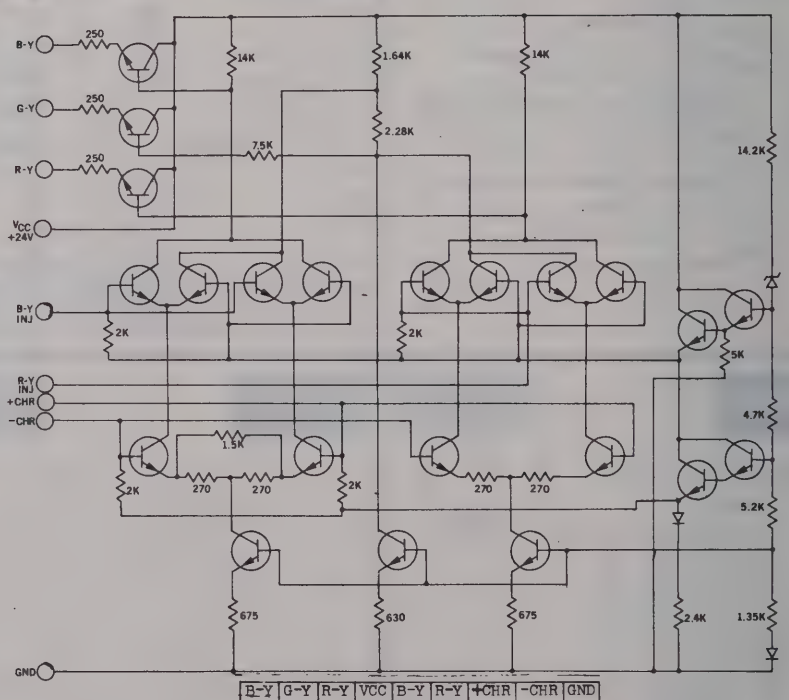
Z013



Z017

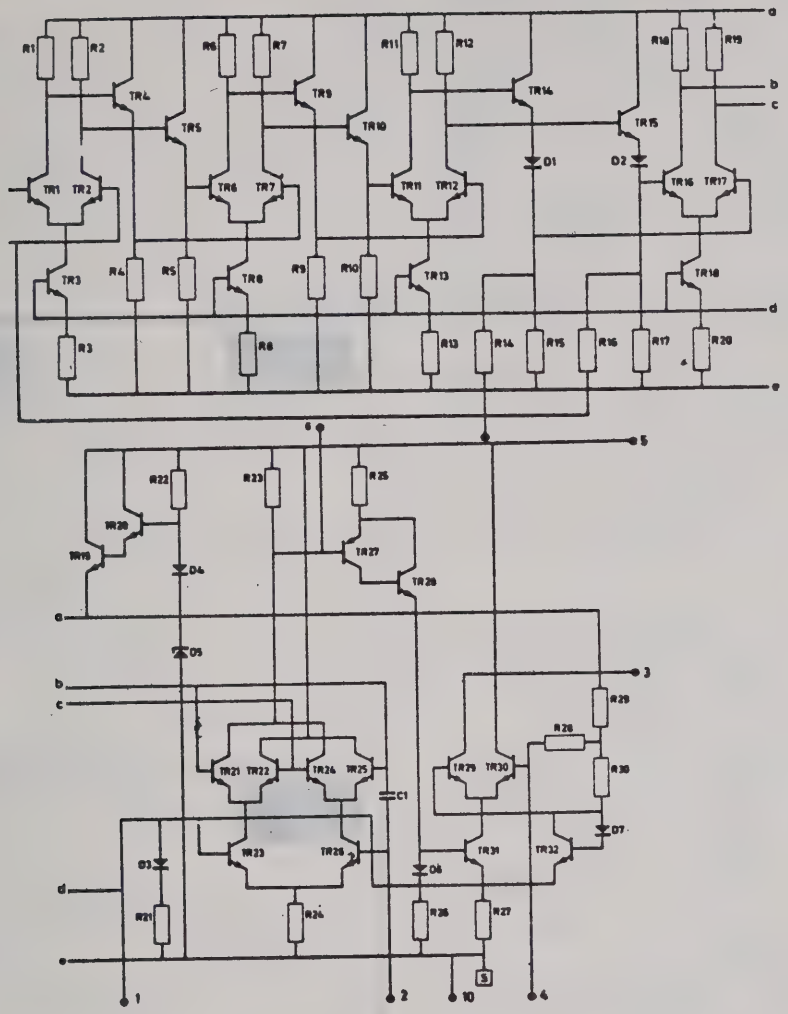


Z018

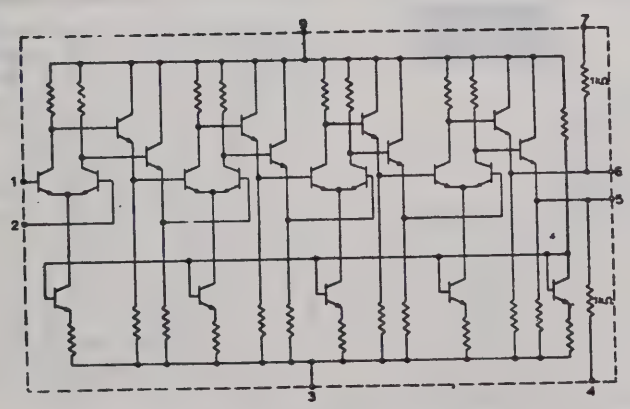


	B-Y	G-Y	R-Y	VCC	B-Y INJ	R-Y INJ	+CHR	-CHR	GND
Z018	9	7	8	6	5	4	3	2	1
Z018a	13	9	11	8	7	6	4	3	14

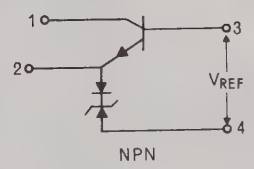
Z021



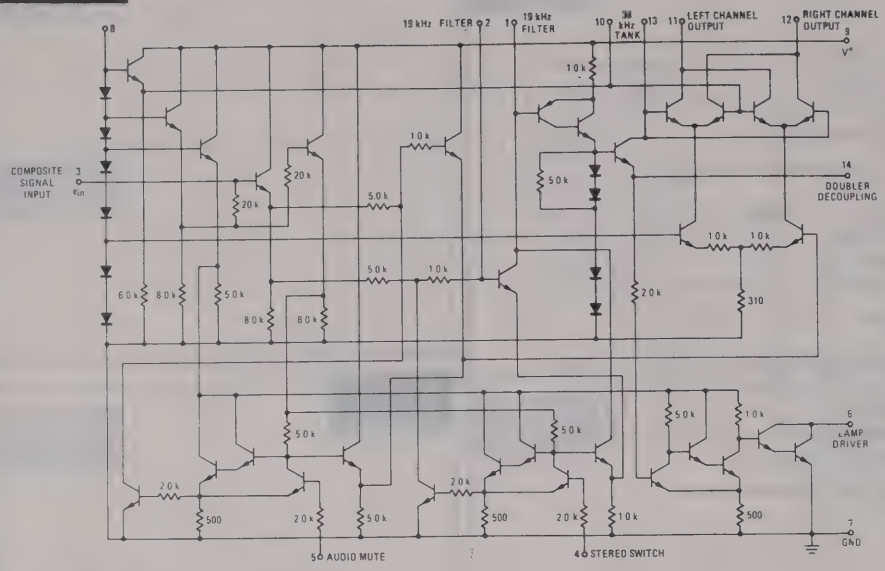
Z024



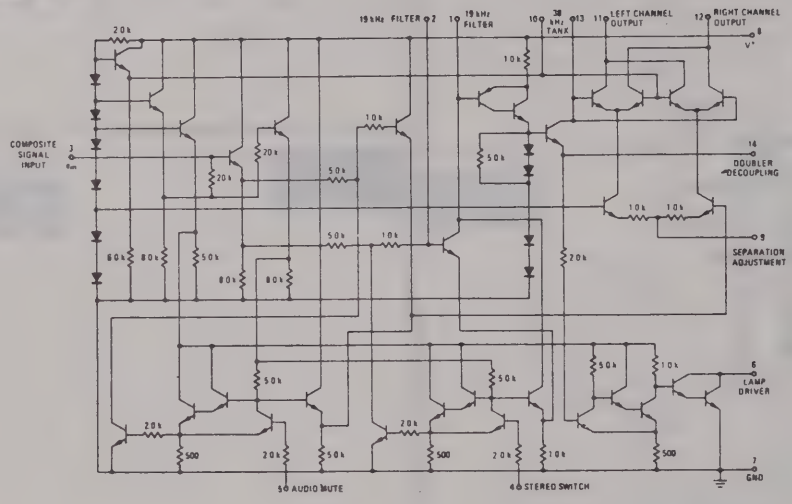
Z025



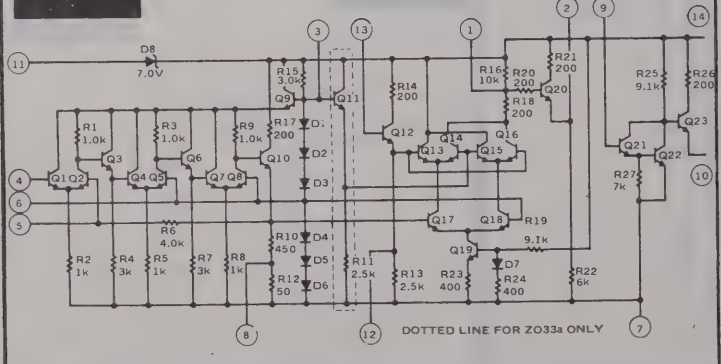
Z030



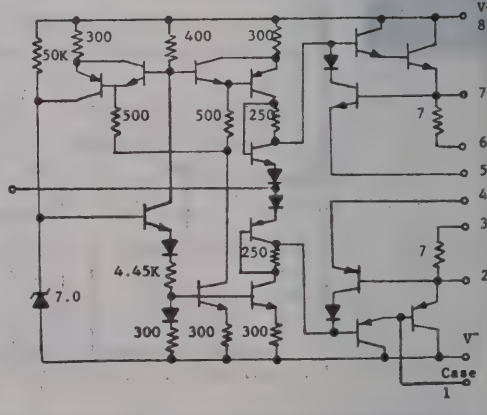
Z031



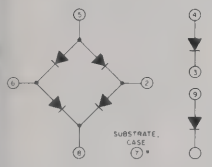
Z033



Z037

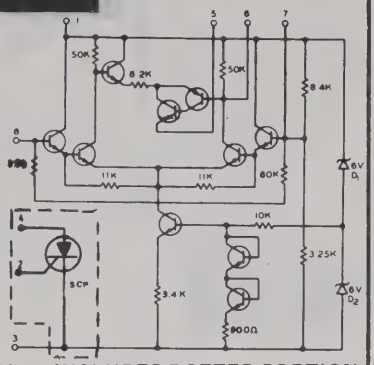


Z041



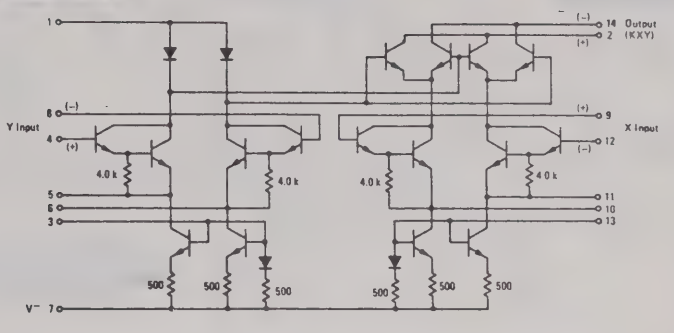
Connect to most negative circuit potential.

Z044



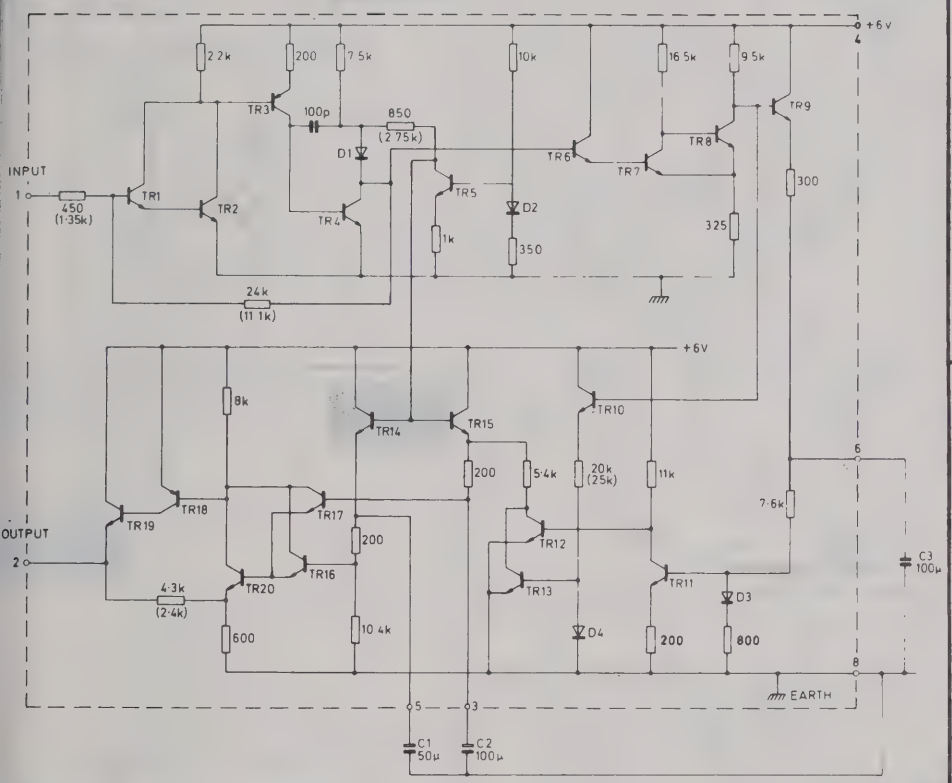
Z044a — INCLUDES DOTTED PORTION.

Z045

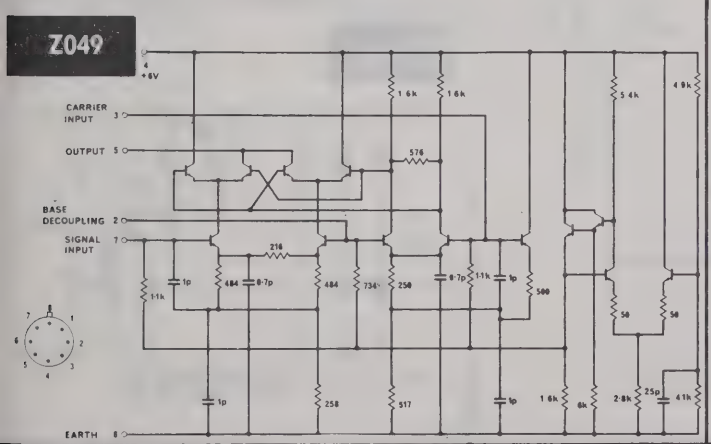


Z048

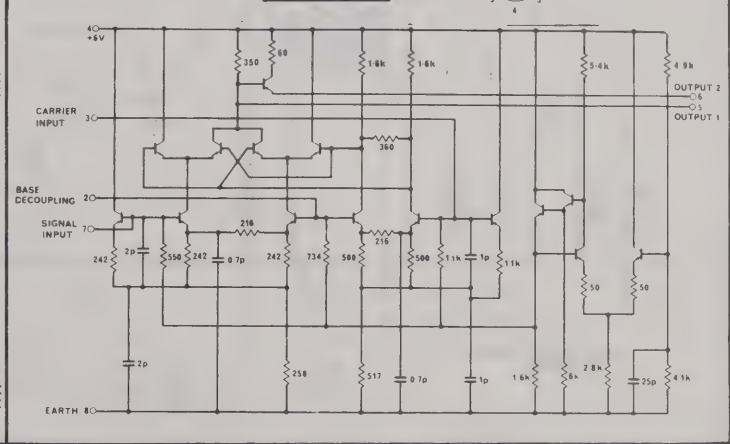
(Component values in brackets refer to **Z048a**



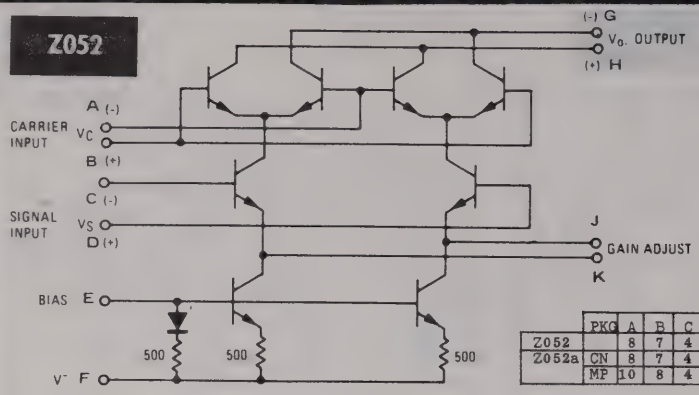
Z049



Z050

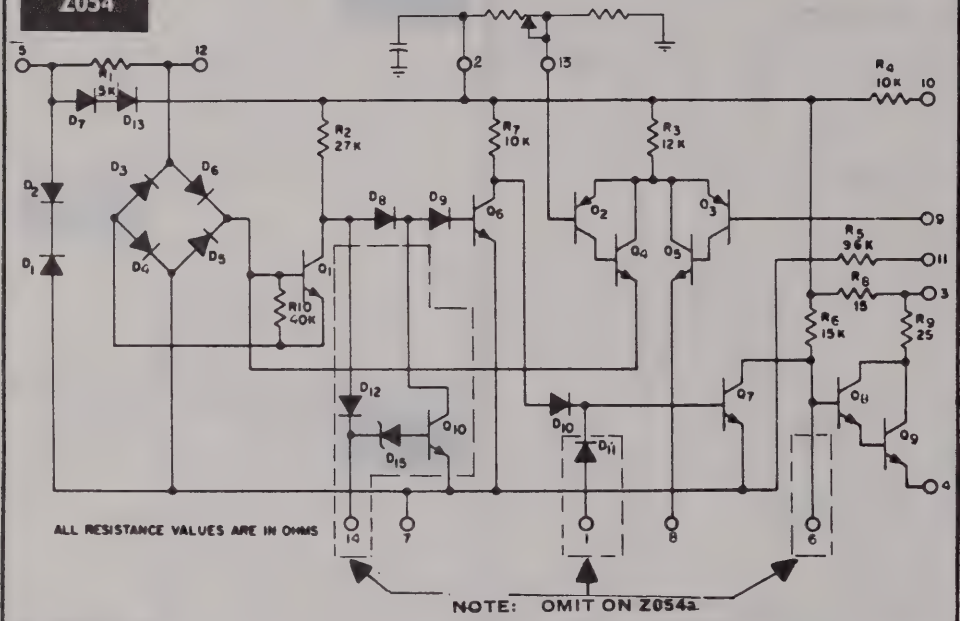


Z052

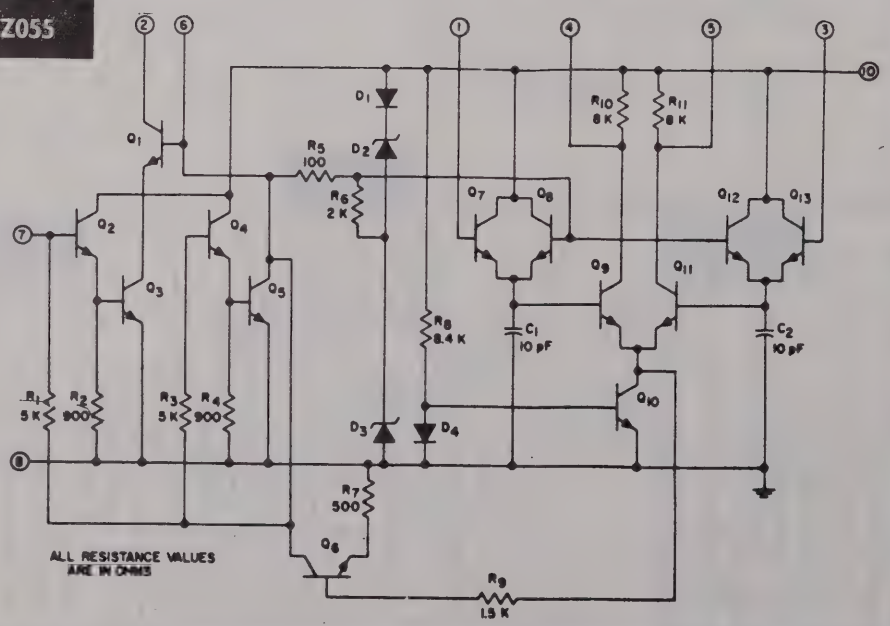


	PKG	A	B	C	D	E	F	G	H	J	K
Z052		8	7	4	1	5	10	9	6	2	3
Z052a	CN	8	7	4	1	5	10	9	6	2	3
	MP	10	8	4	1	5	14	12	6	2	3

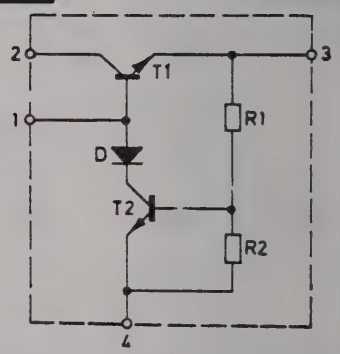
Z054



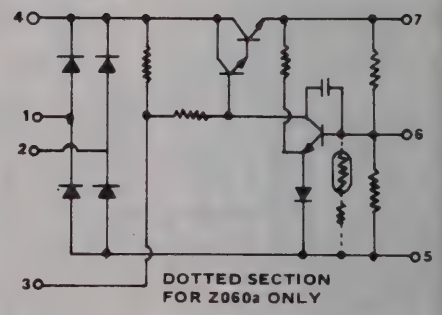
Z055



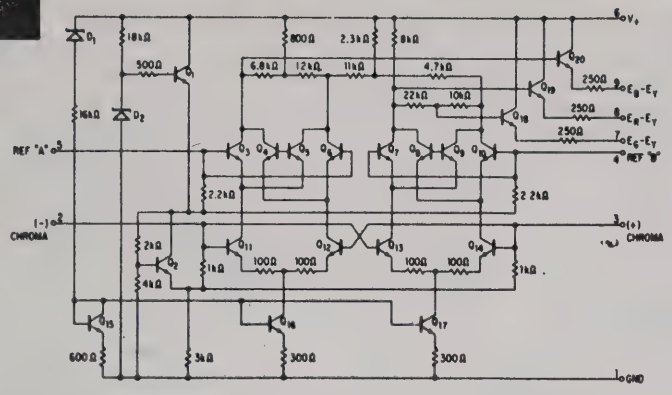
Z057



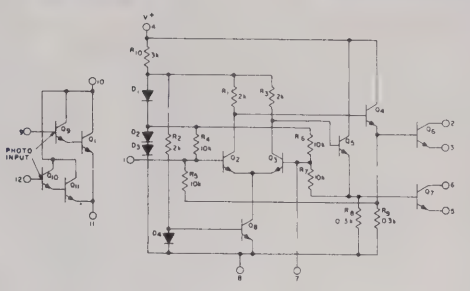
Z060



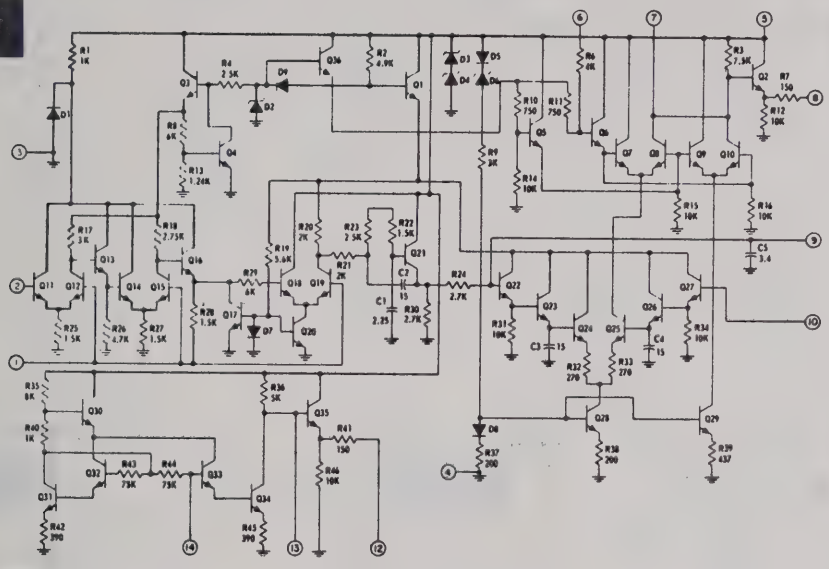
Z062



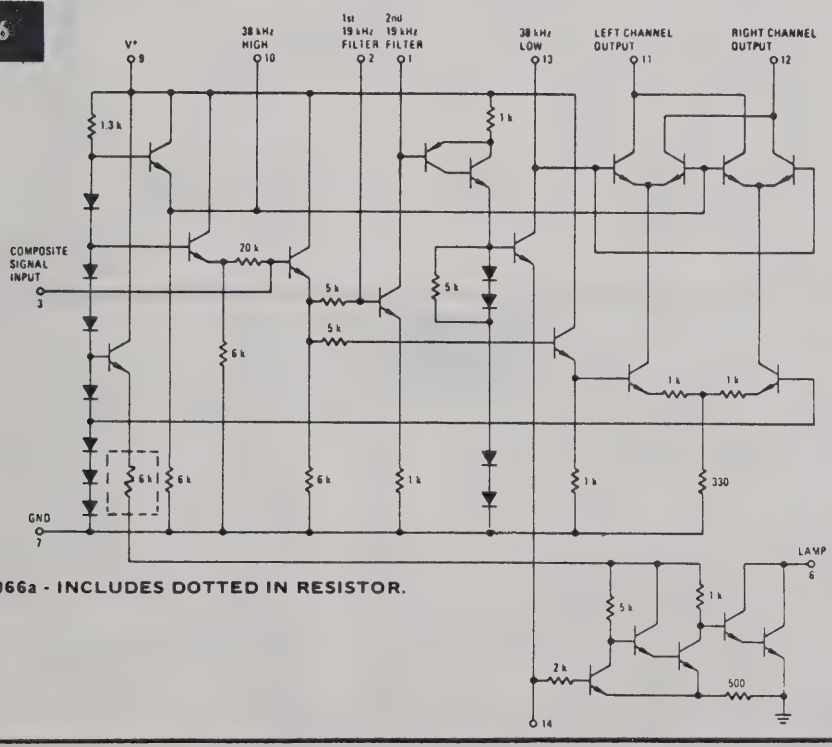
Z063



Z064

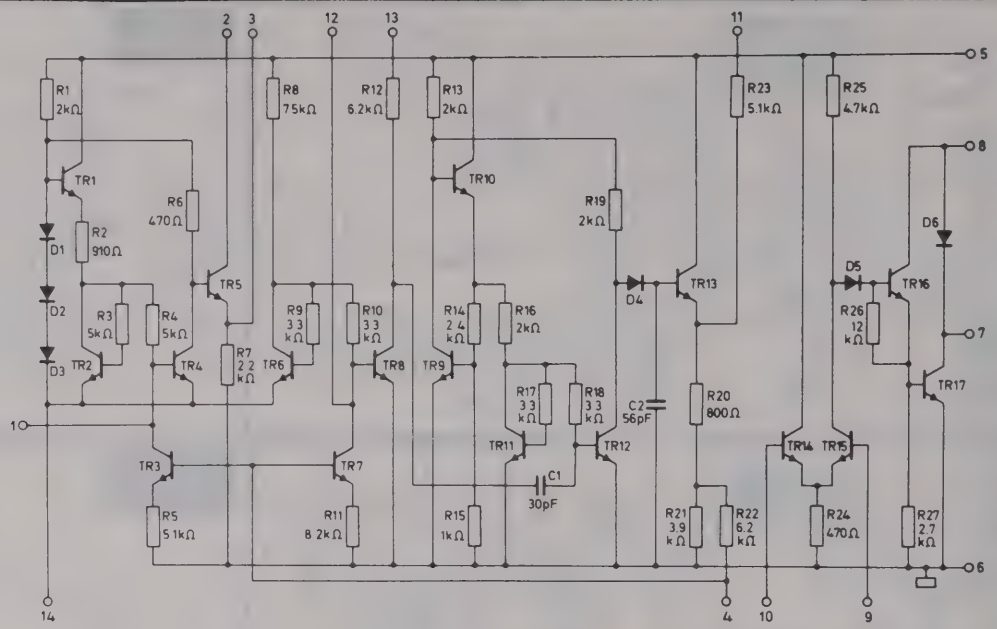


Z066

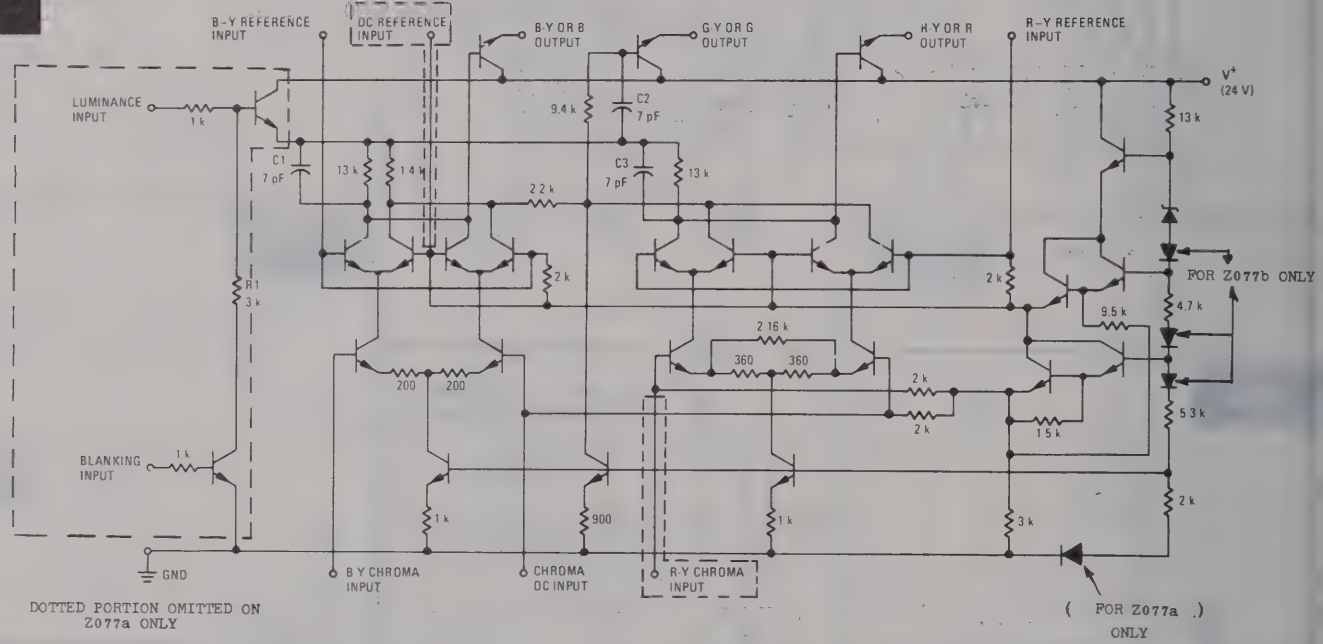


Z066a - INCLUDES DOTTED IN RESISTOR.

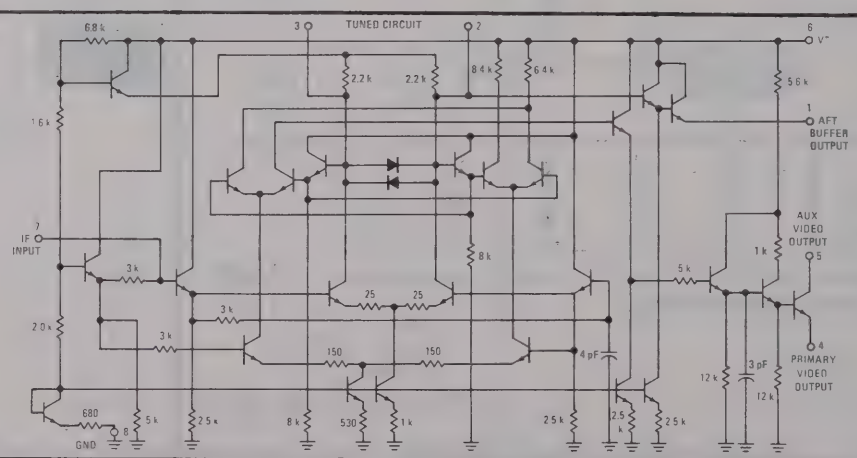
Z070



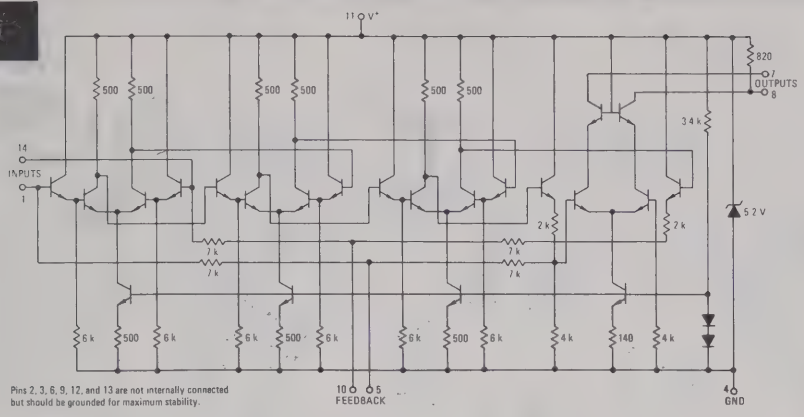
Z077



Z078

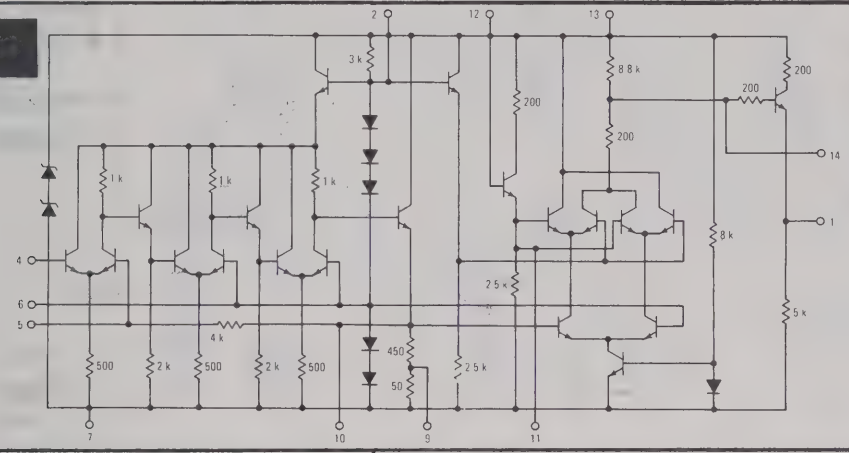


Z079

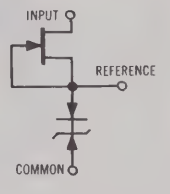


Pins 2, 3, 6, 9, 12, and 13 are not internally connected but should be grounded for maximum stability.

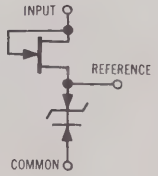
Z080



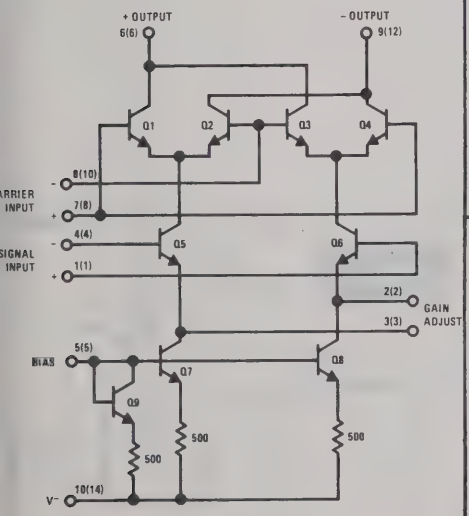
Z083



Z084

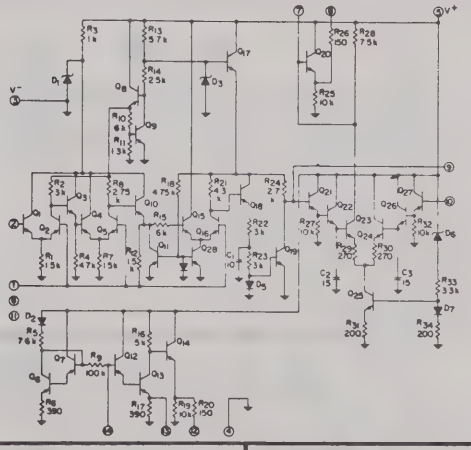


Z089



NOTE: NUMBERS IN PARENTHESES SHOW DIP CONNECTIONS

Z090

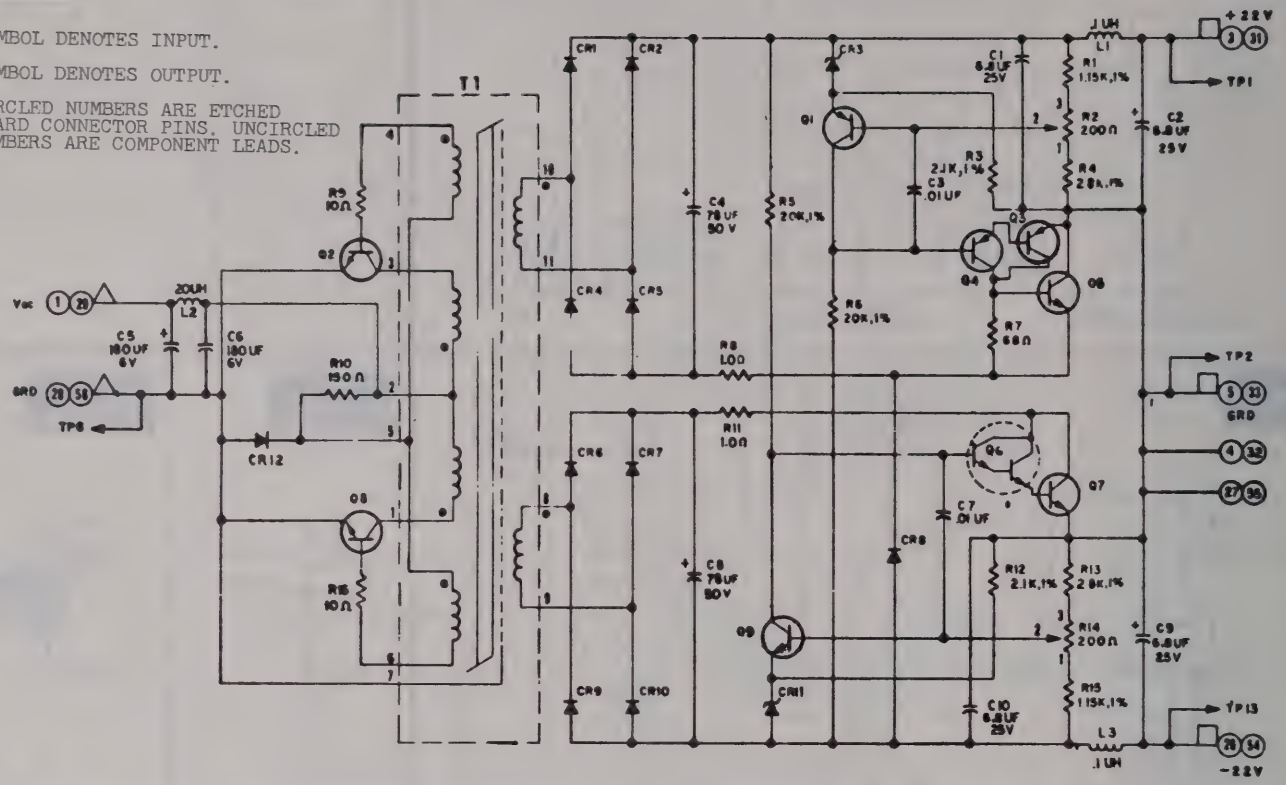


Z092

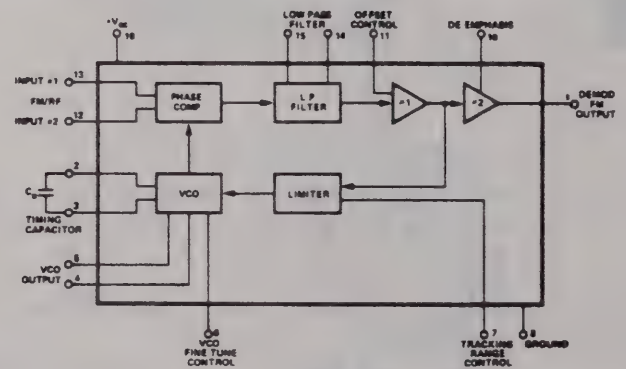
△ SYMBOL DENOTES INPUT.

□ SYMBOL DENOTES OUTPUT.

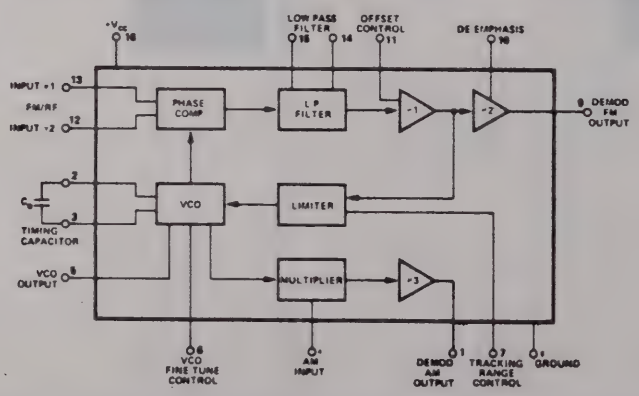
(28) CIRCLED NUMBERS ARE ETCHED BOARD CONNECTOR PINS. UNCIRCLED NUMBERS ARE COMPONENT LEADS.



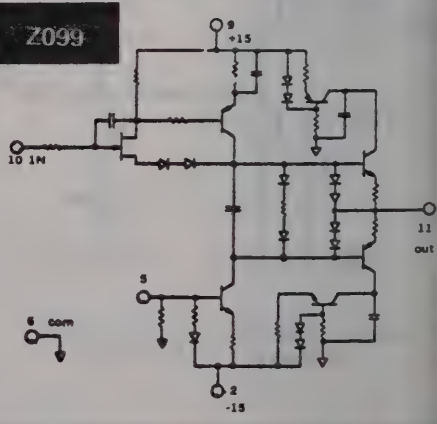
Z096



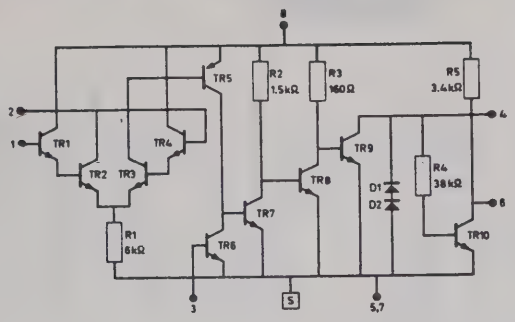
Z097



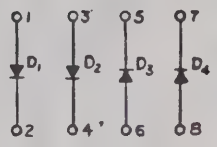
Z099



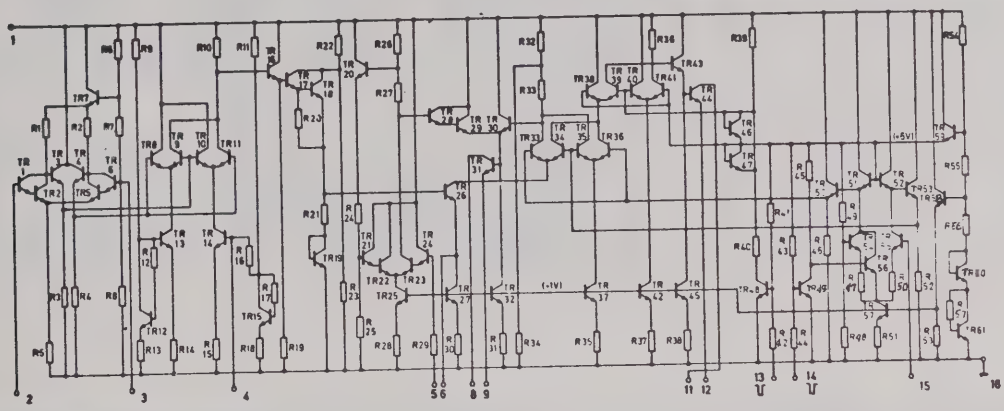
Z104



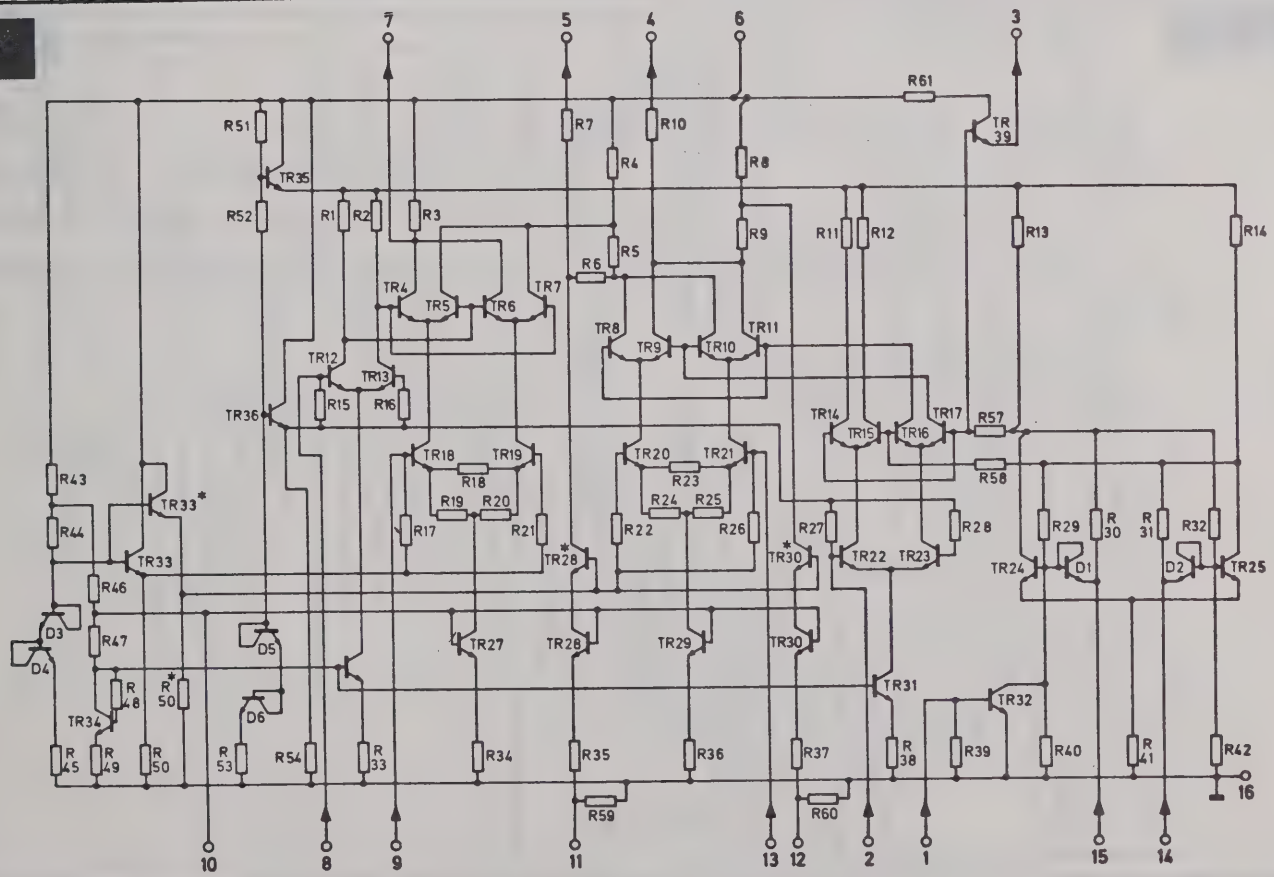
Z105



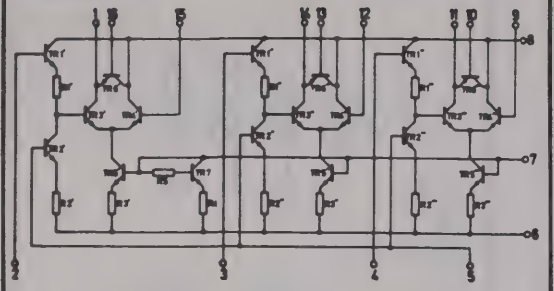
Z106



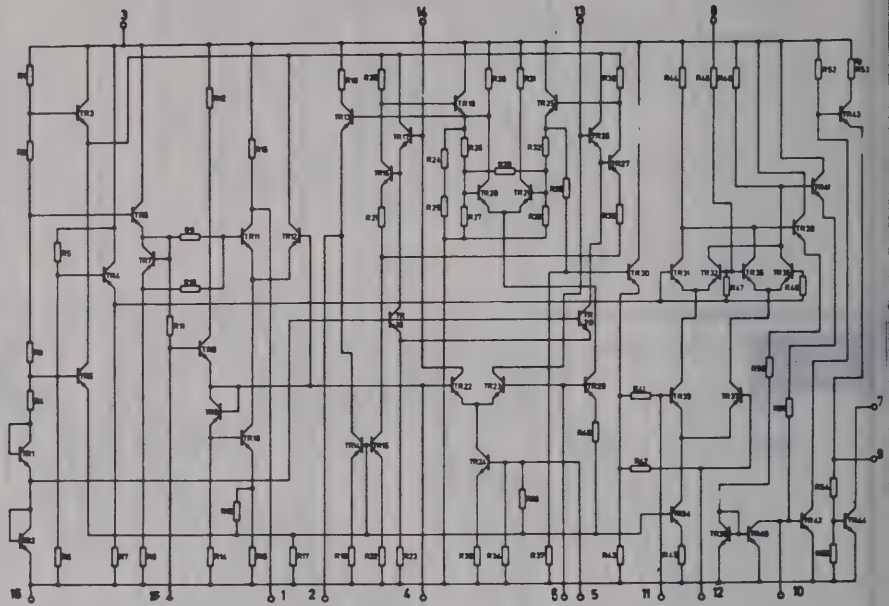
Z107



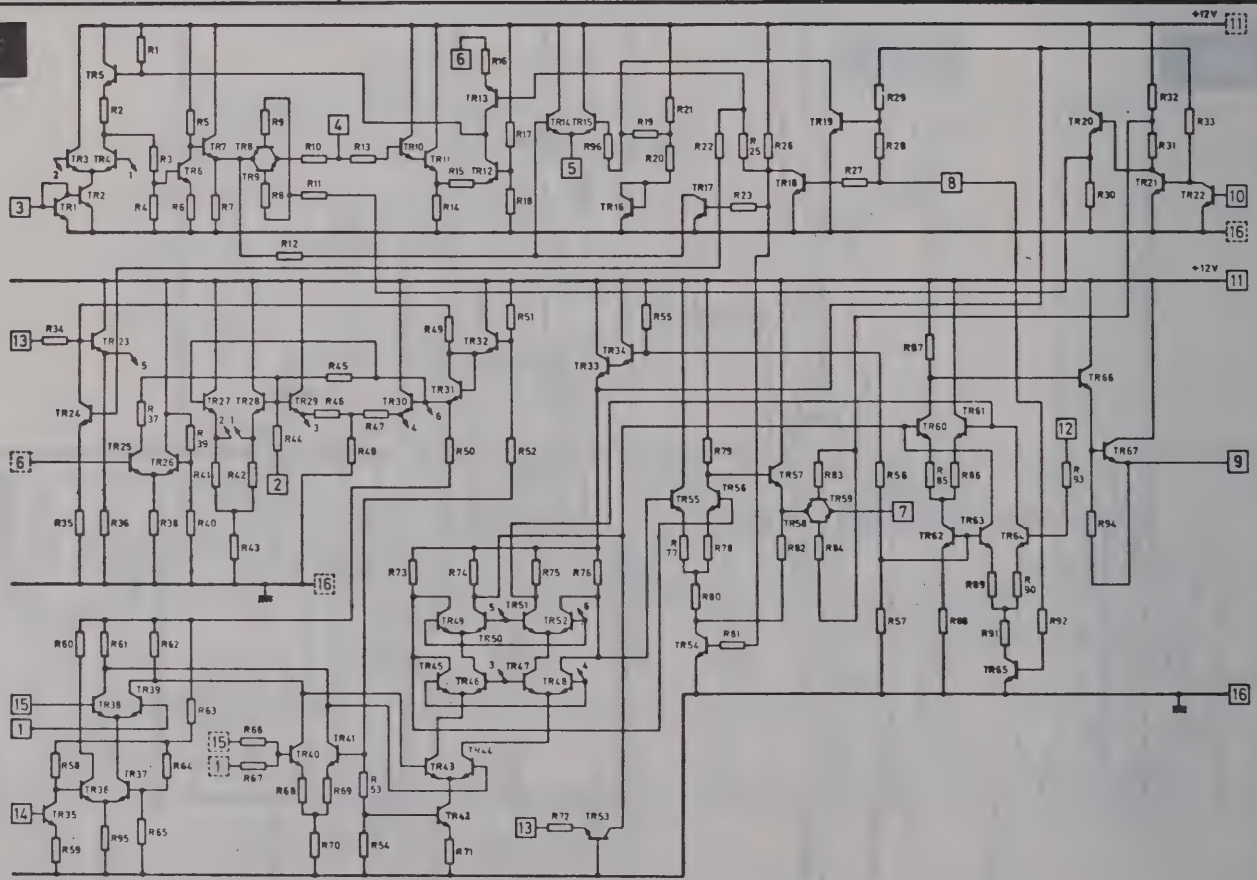
Z108



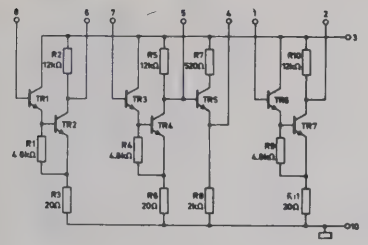
Z109



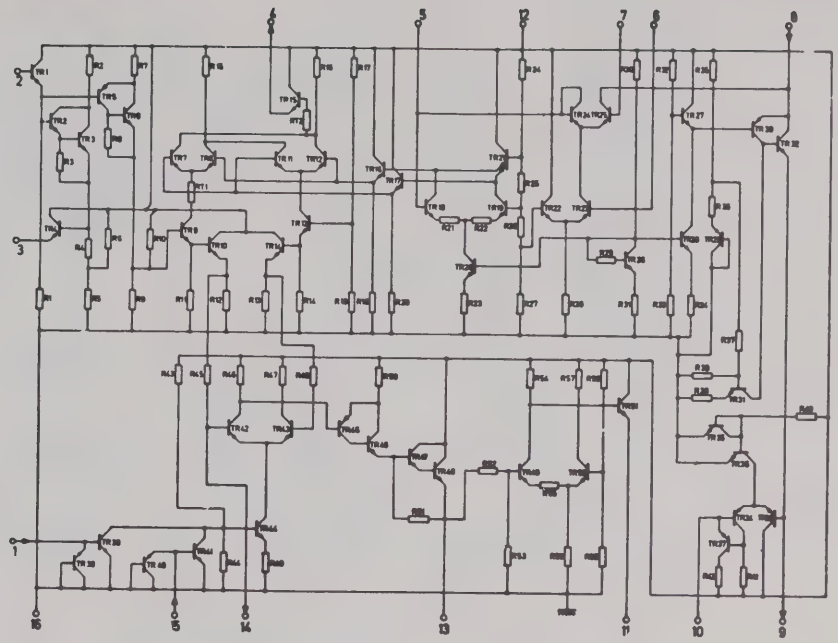
Z110



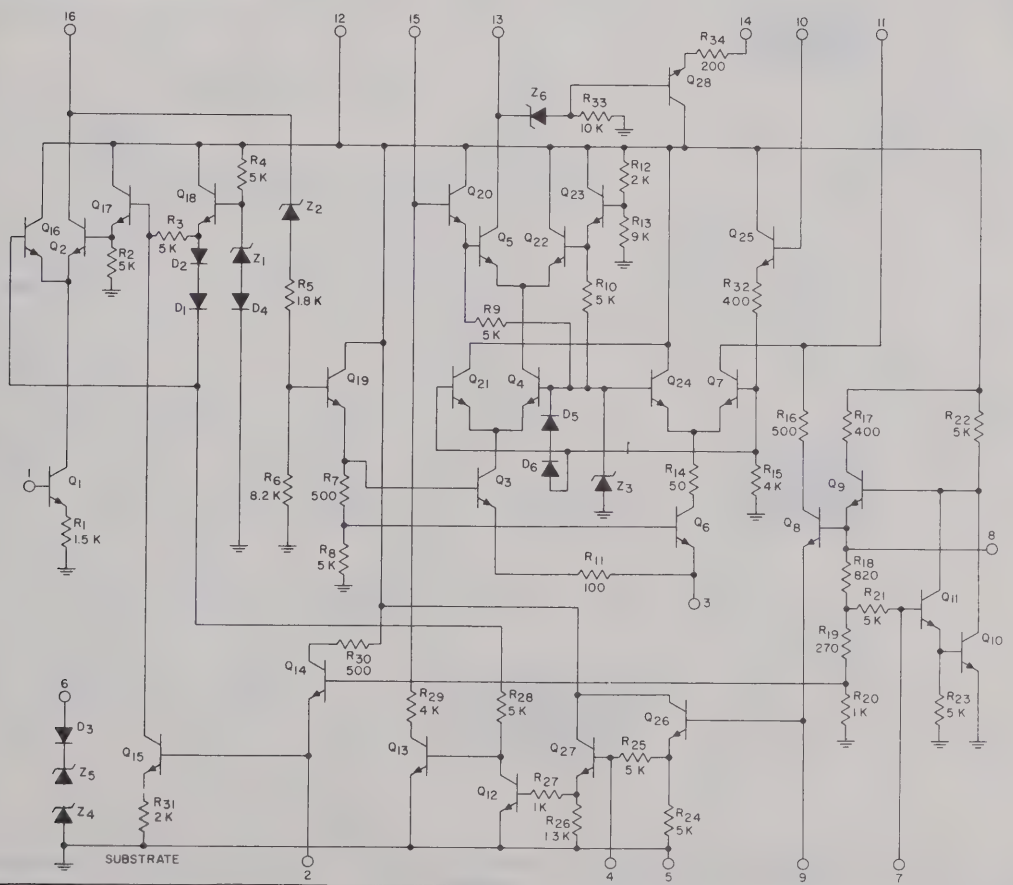
Z115



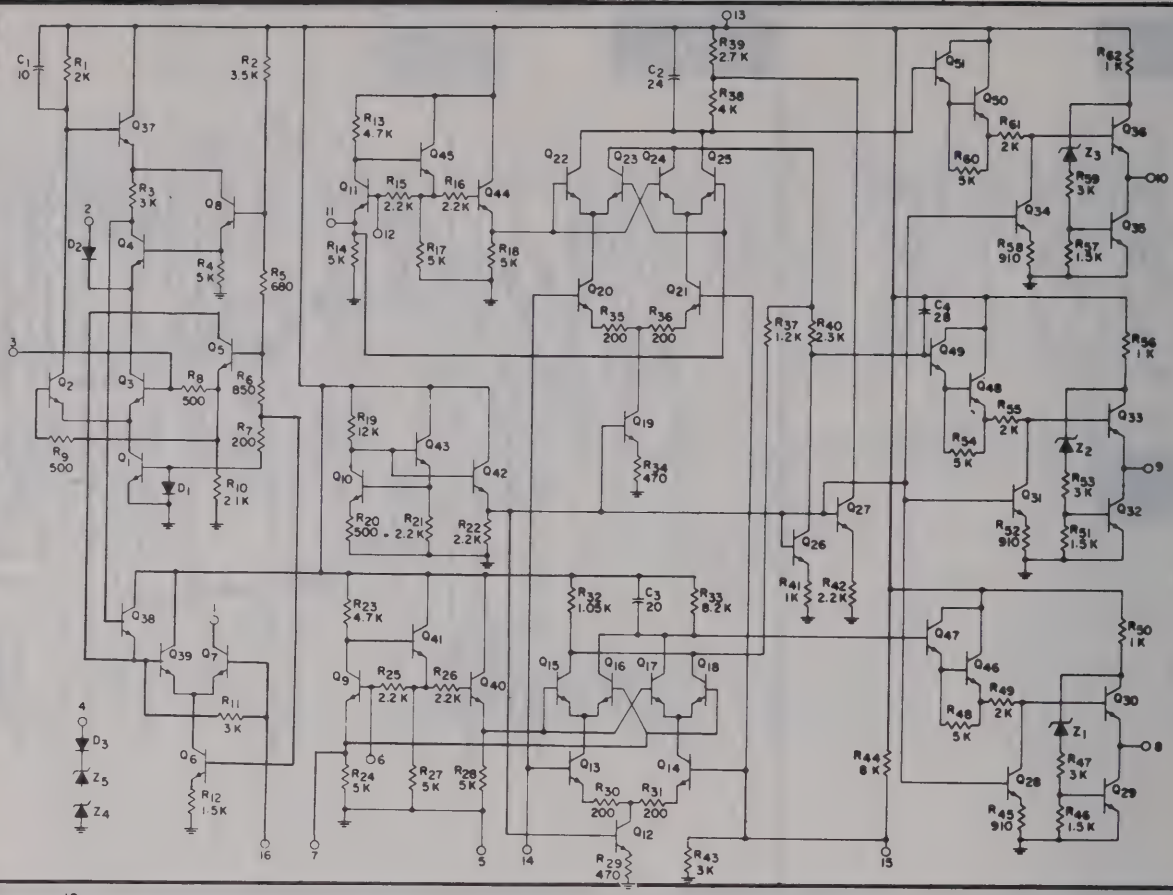
Z116



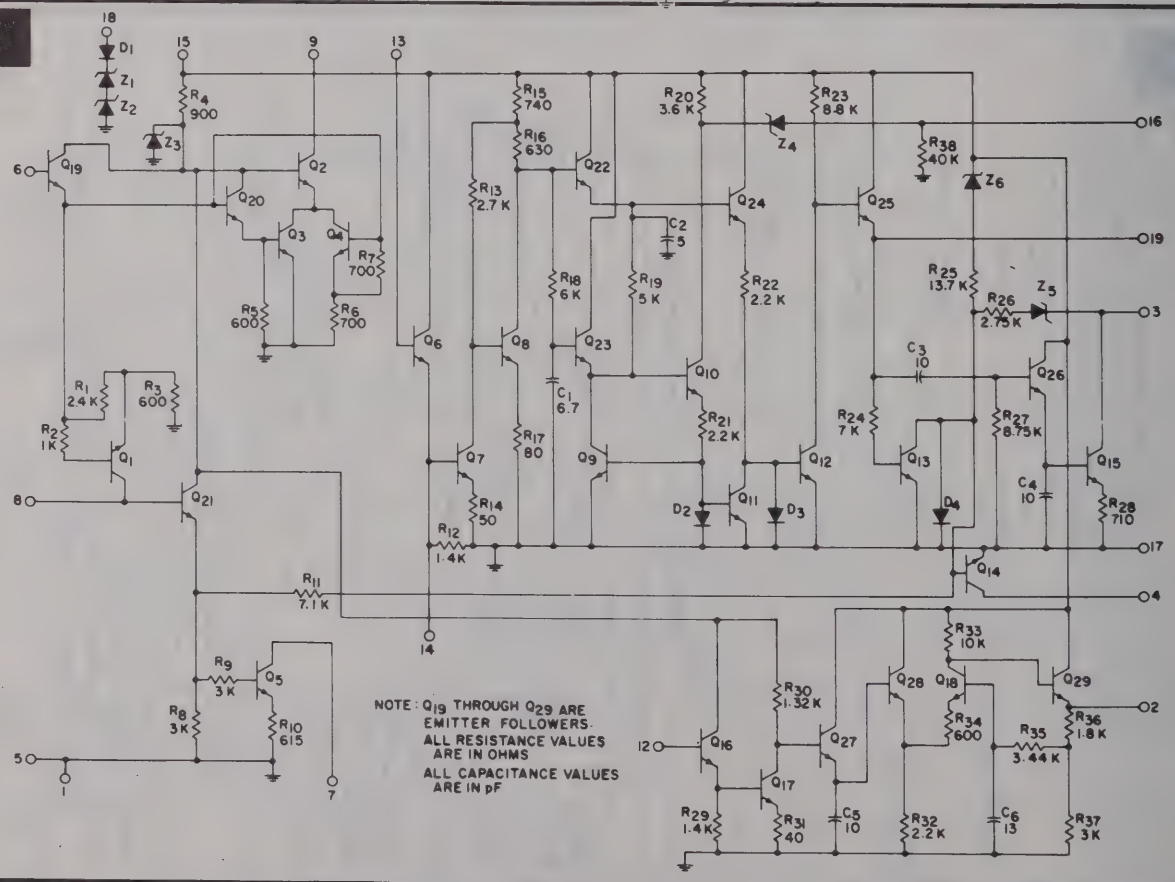
Z118



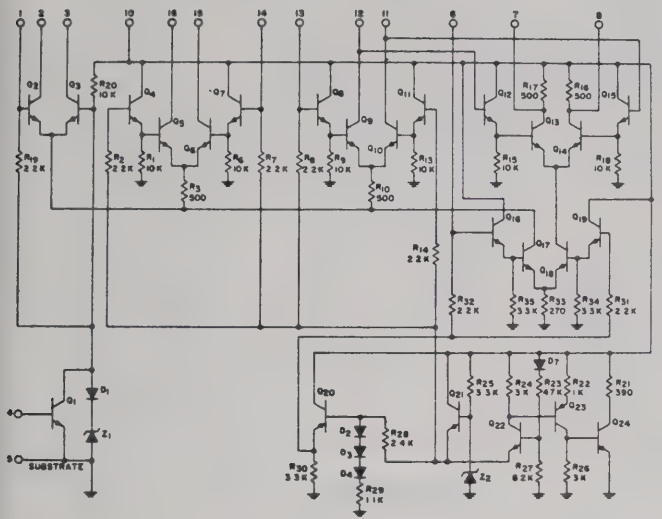
Z119


C1 10
R1 2K
R2 3.5K
R3 3K
R4 5K
R5 680
R6 850
R7 200
R8 500
R9 500
R10 2.1K
R11 3K
R12 1.5K
R13 4.7K
R14 5K
R15 2.2K
R16 2.2K
R17 5K
R18 5K
R19 12K
R20 500
R21 2.2K
R22 2.2K
R23 4.7K
R24 5K
R25 2.2K
R26 2.2K
R27 5K
R28 5K
R29 470
R30 200
R31 200
R32 1.05K
R33 8.2K
R34 470
R35 200
R36 200
R37 1.2K
R38 4K
R39 2.7K
R40 2.3K
R41 1K
R42 2.2K
R43 3K
R44 8K
C2 24
C3 20
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 Q31 Q32 Q33 Q34 Q35 Q36 Q37 Q38 Q39 Q40 Q41 Q42 Q43 Q44 Q45 Q46 Q47 Q48 Q49 Q50 Q51
D1 D2 D3
Z1 Z2 Z3 Z4 Z5
R45 910
R46 1.5K
R47 3K
R48 5K
R49 2K
R50 1K
R51 910
R52 1.5K
R53 3K
R54 5K
R55 2K
R56 1K
R57 1.3K
R58 910
R59 3K
R60 5K
R61 2K
R62 1K
C4 28
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

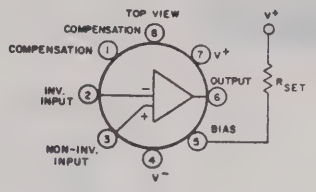
Z120

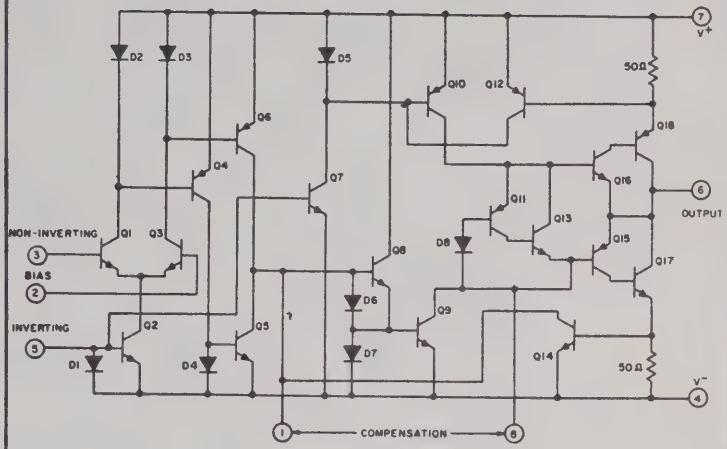

D1
Z1
Z2
Z3
Z4
Z5
Z6
R1 2.4K
R2 1K
R3 600
R4 900
R5 600
R6 700
R7 700
R8 3K
R9 3K
R10 615
R11 7.1K
R12 1.4K
R13 2.7K
R14 50
R15 740
R16 630
R17 80
R18 6K
R19 5K
R20 3.6K
R21 2.2K
R22 2.2K
R23 8.8K
R24 7K
R25 13.7K
R26 2.75K
R27 8.75K
R28 710
R29 1.4K
R30 1.32K
R31 40
R32 2.2K
R33 10K
R34 600
R35 3.44K
R36 1.8K
R37 3K
R38 40K
C1 6.7
C2 5
C3 10
C4 10
C5 10
C6 13
Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 Q17 Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29
D2 D3 D4
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19
NOTE: Q19 THROUGH Q29 ARE EMITTER FOLLOWERS.
ALL RESISTANCE VALUES ARE IN OHMS
ALL CAPACITANCE VALUES ARE IN pF

Z121

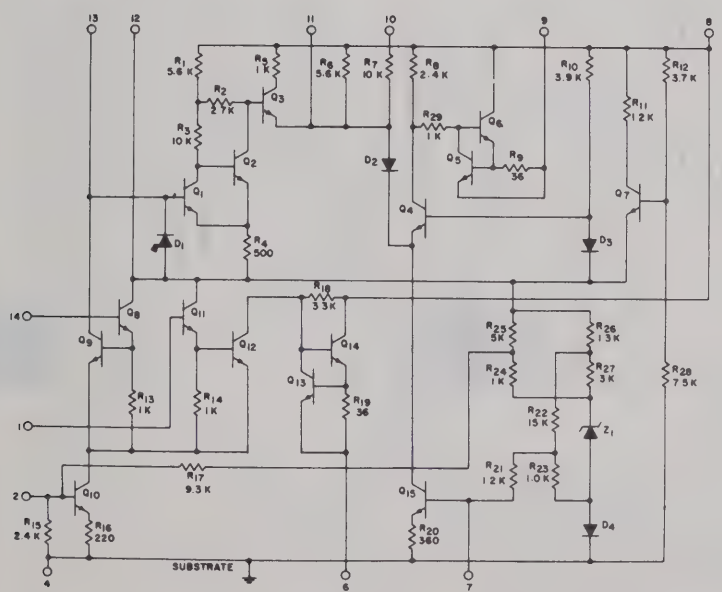


Z122

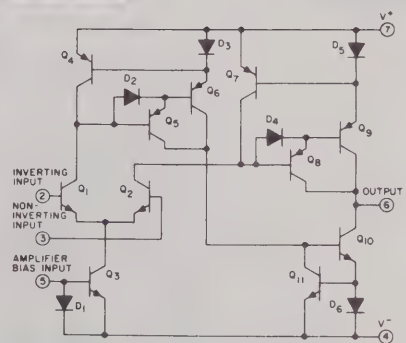




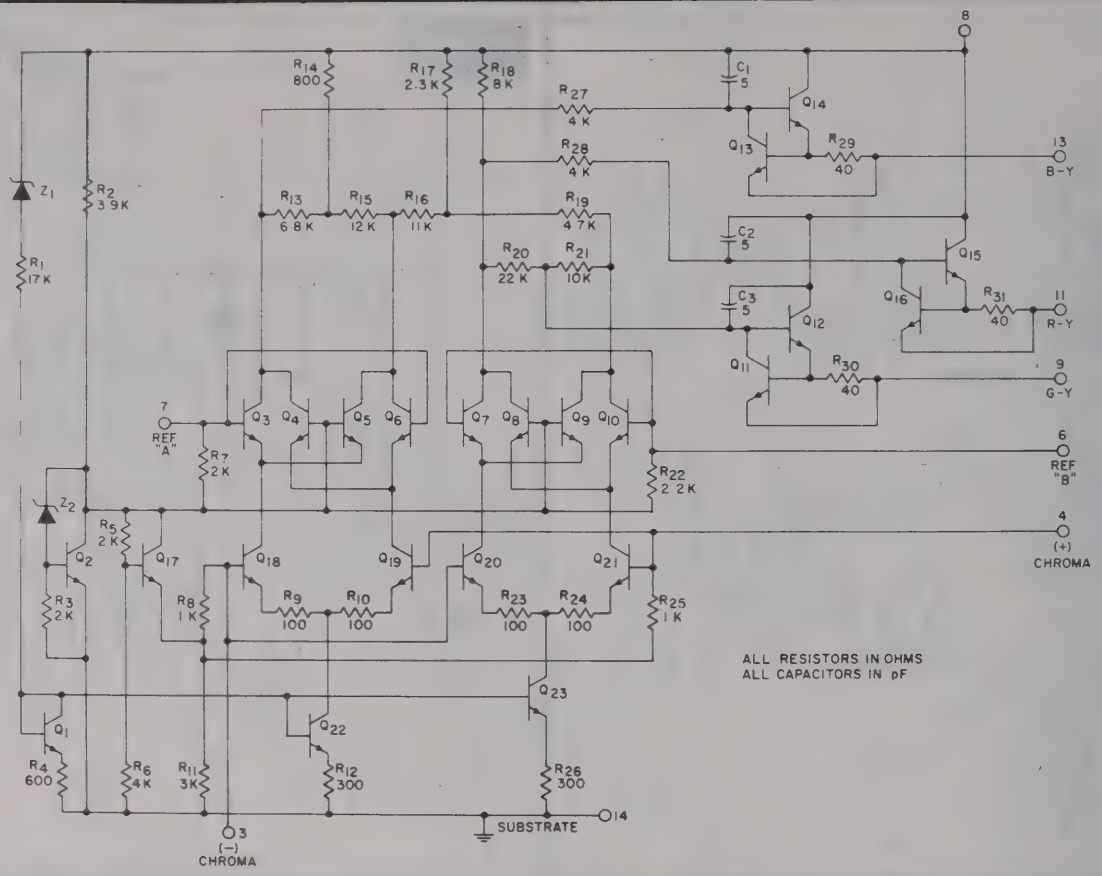
Z123



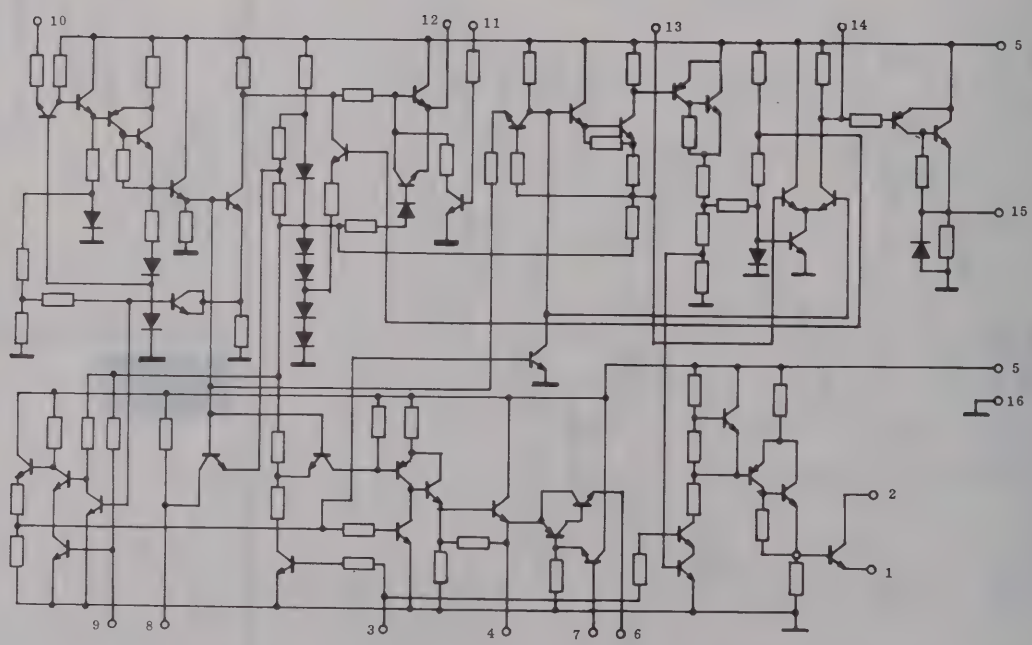
Z124



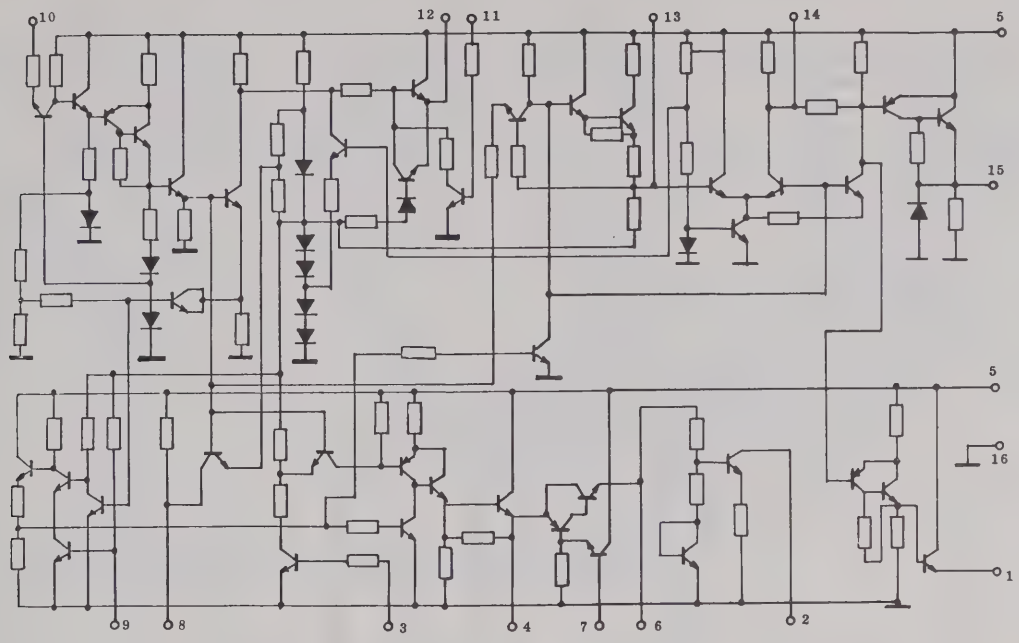
Z125


8
R14 800
R17 2.3K
R18 8K
C1 5
R27 4K
Q14
Q13
R29 40
13 B-Y
R28 4K
Z1
R2 3.9K
R1 17K
R13 6.8K
R15 12K
R16 11K
R19 4.7K
C2 5
Q15
R20 22K
R21 10K
C3 5
Q16
R31 40
11 R-Y
Q12
Q11
R30 40
9 G-Y
7 REF "A"
Q3 Q4 Q5 Q6
Q7 Q8 Q9 Q10
R7 2K
6 REF "B"
R22 2.2K
Z2
R5 2K
4 (+) CHROMA
Q2
Q17
Q18
Q19
Q20
Q21
R3 2K
R8 1K
R9 100
R10 100
R23 100
R24 100
R25 1K
ALL RESISTORS IN OHMS
ALL CAPACITORS IN pF
Q23
Q1
Q22
R4 600
R6 4K
R11 3K
R12 300
R26 300
3 (-) CHROMA
SUBSTRATE
14

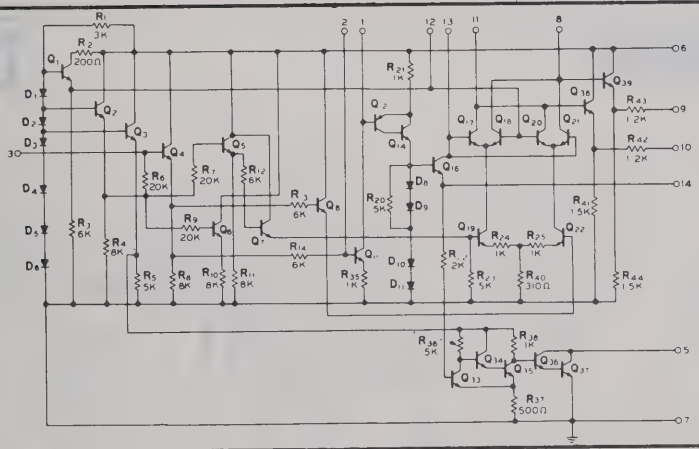
Z126


10
12
11
13
14
5
15
5
16
2
1
9
8
3
4
7
6

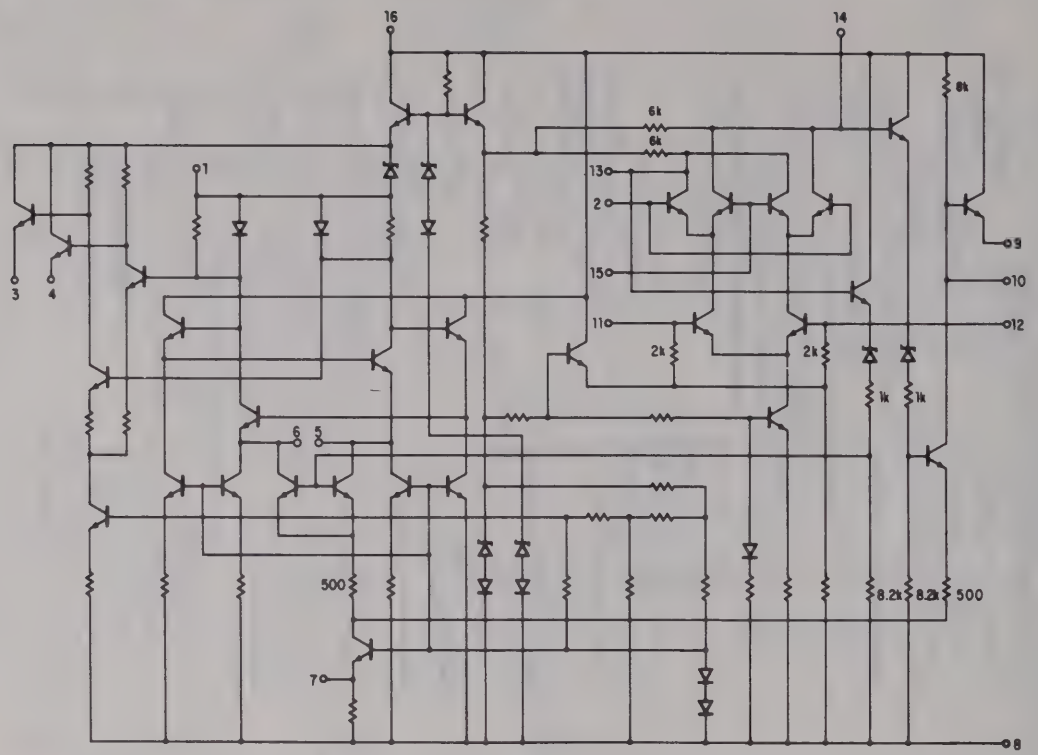
Z127


10
12
11
13
14
5
15
5
16
1
9
8
3
4
7
6
2

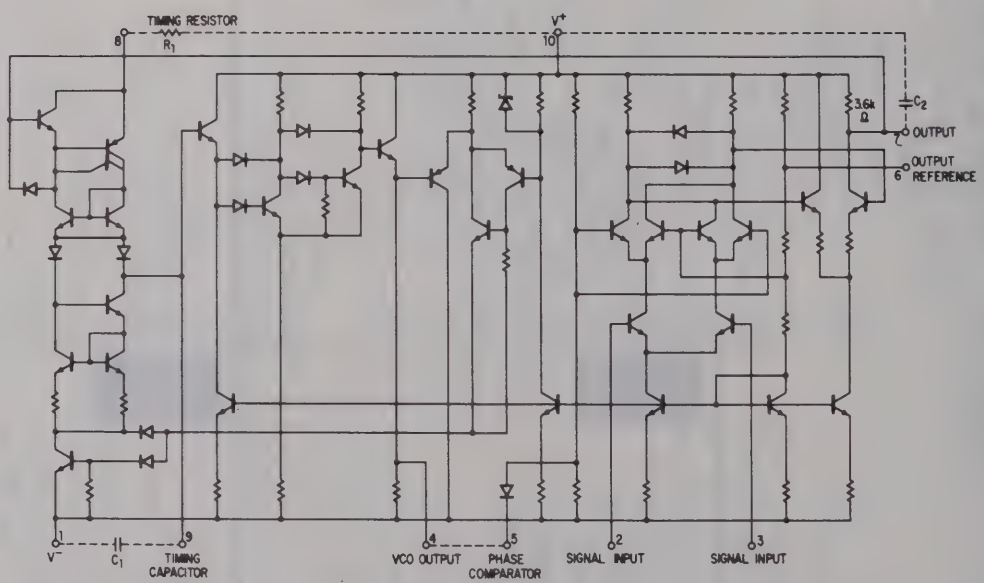
Z132


R1 3K
R2 200Ω
Q1
D1
D2
D3
D4
D5
D6
30
2
1
12
13
11
8
6
9
10
14
5
7

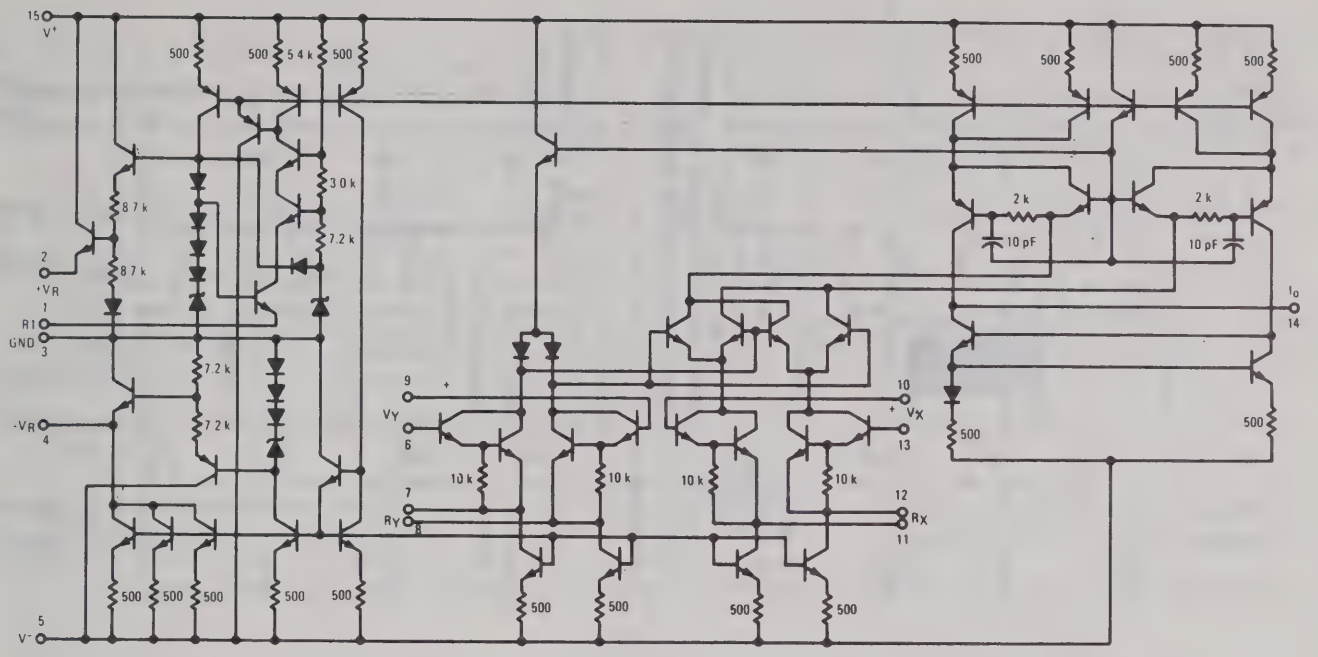
Z134


16
14
8k
6k
6k
13
2
9
15
10
11
12
2k
2k
1k
1k
1
3
4
6
5
500
8.2k
8.2k
500
7
8

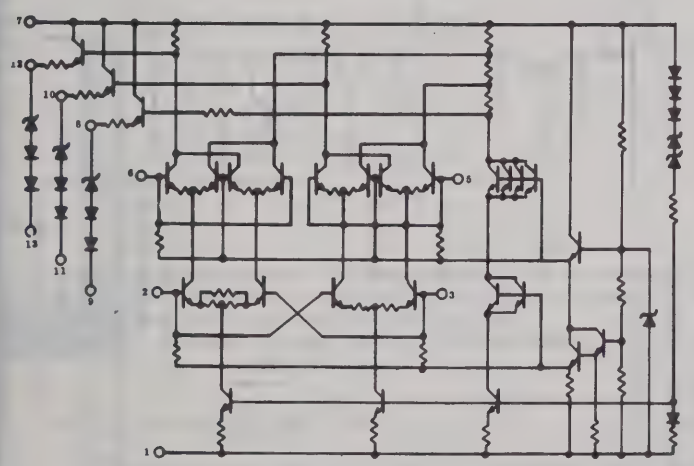
Z135


TIMING RESISTOR
R1
8
V+
10
3.6k Ω
C2
OUTPUT
OUTPUT REFERENCE
6
1
V−
C1
9
TIMING CAPACITOR
4
VCO OUTPUT
5
PHASE COMPARATOR
2
SIGNAL INPUT
3
SIGNAL INPUT

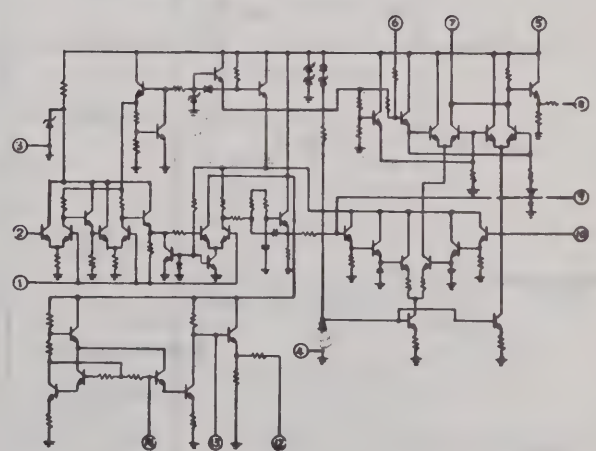
Z136



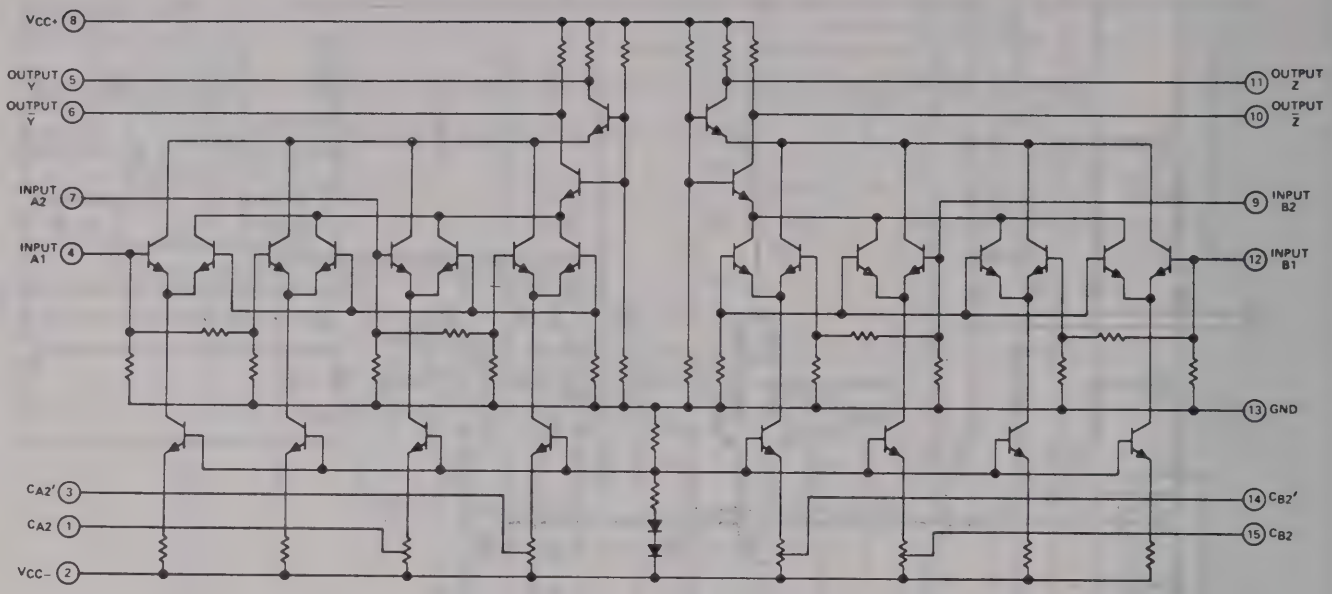
Z141



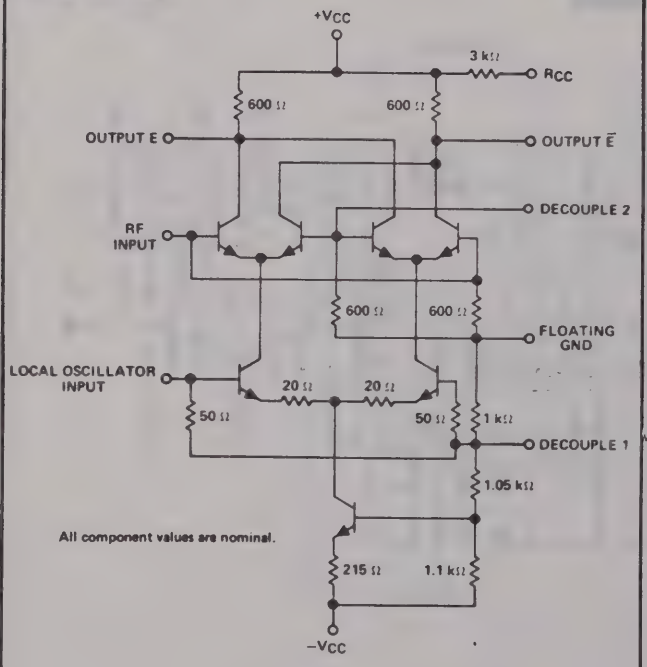
Z142



Z143

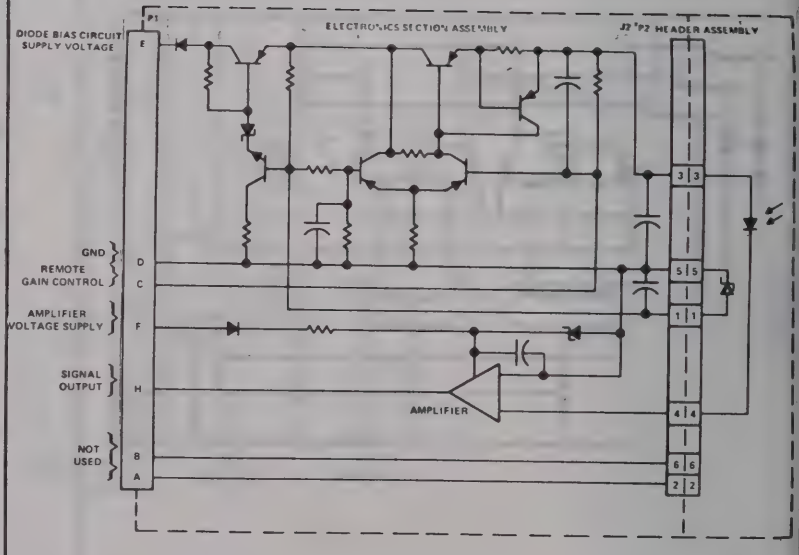


Z144

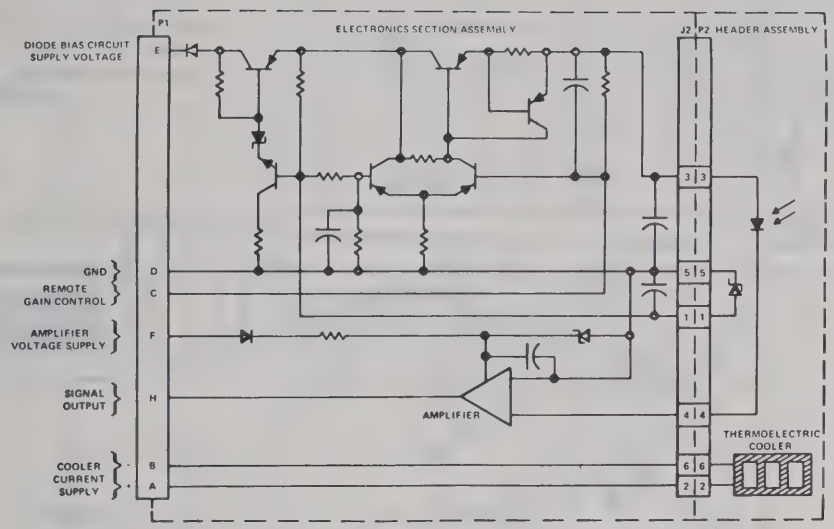


	PKG	VI	V−	OUTPUT E	OUTPUT Ē	FLOAT COM	LOCAL OSC. IN	DECOUPLE 1	DECOUPLE 2	RF IN	RCC
Z144	TO100	1	5	2	10	3	4	6	7	8	9
	MP	2	6	3	13	4	5	9	10	11	12

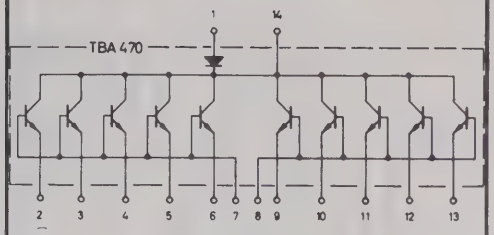
Z145



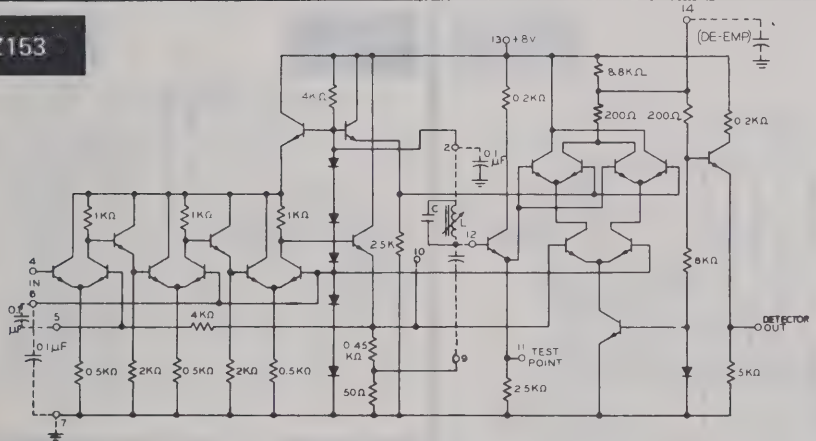
Z146



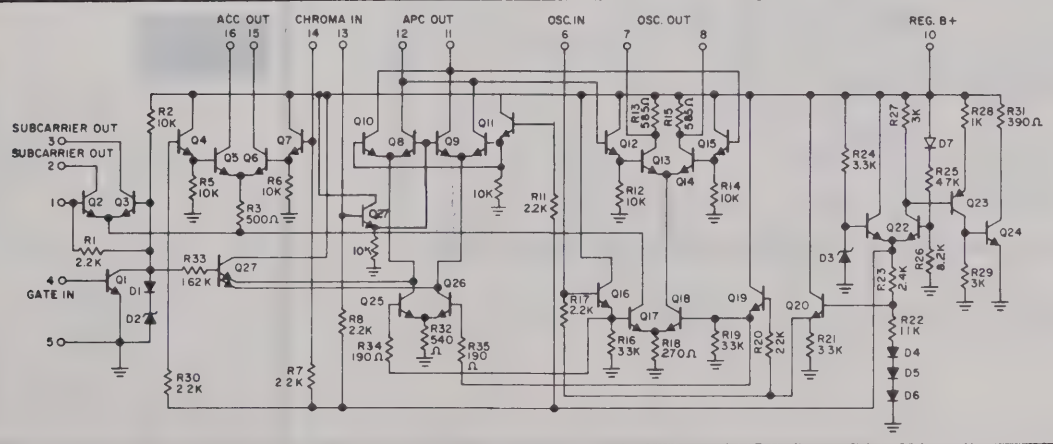
Z150



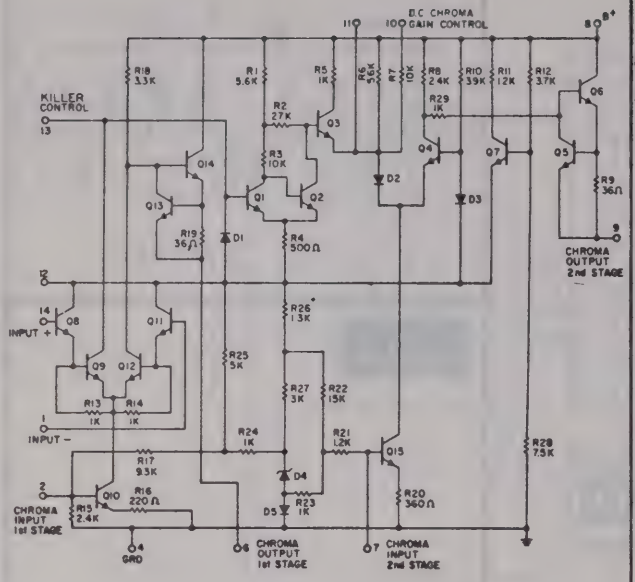
Z153



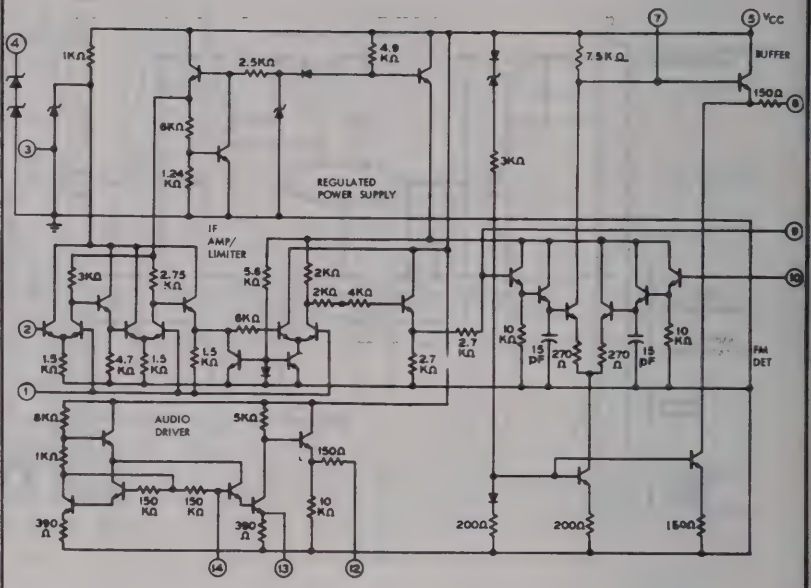
Z154



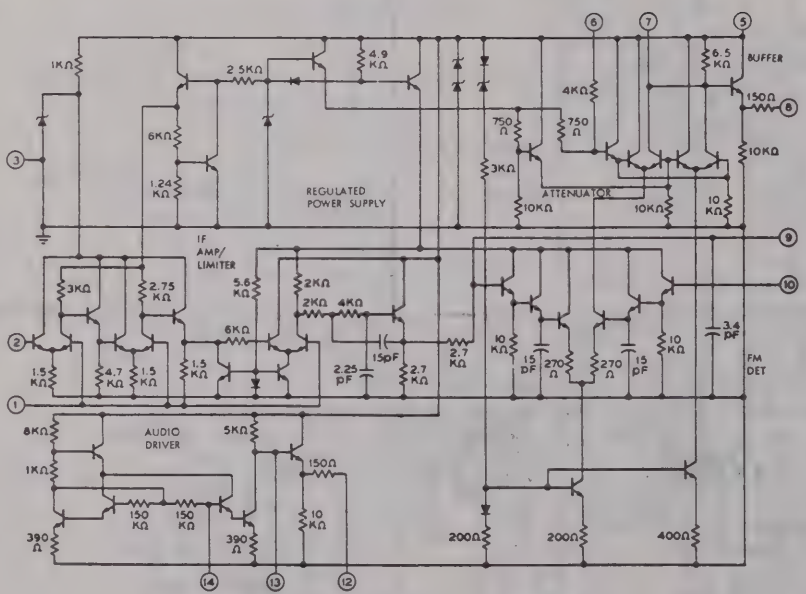
Z155



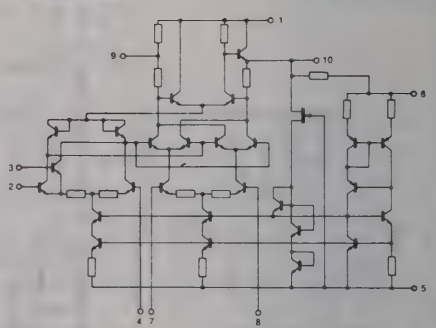
Z156



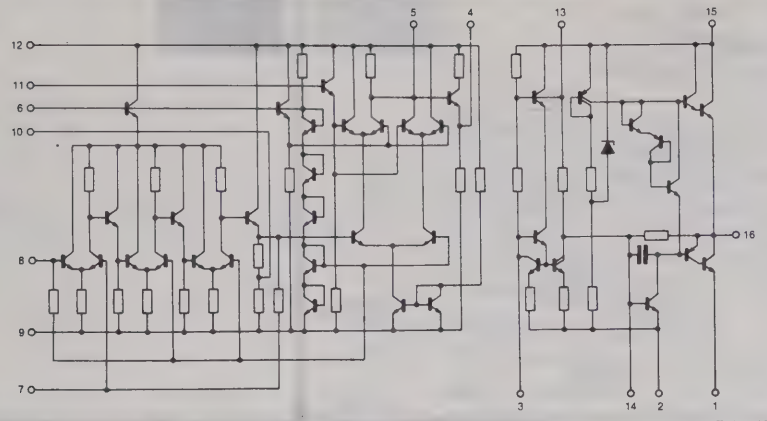
Z157



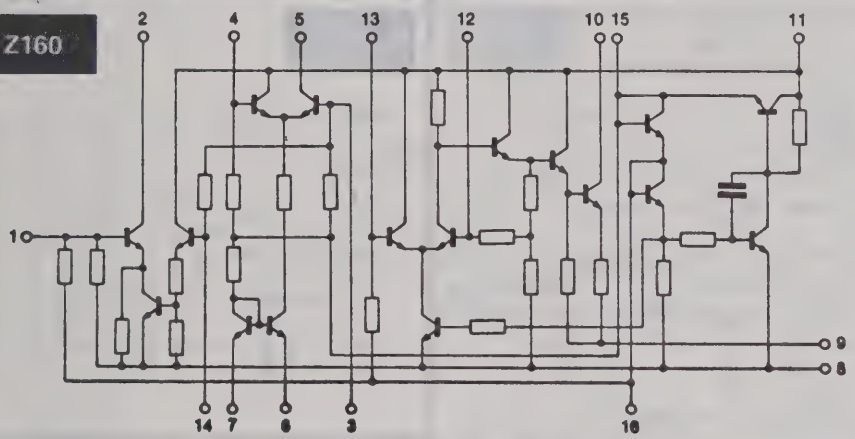
Z158



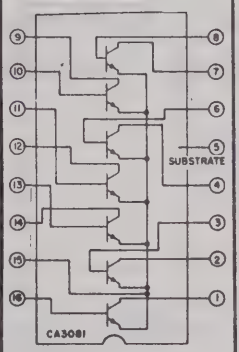
Z159



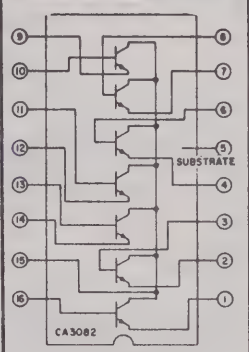
Z160



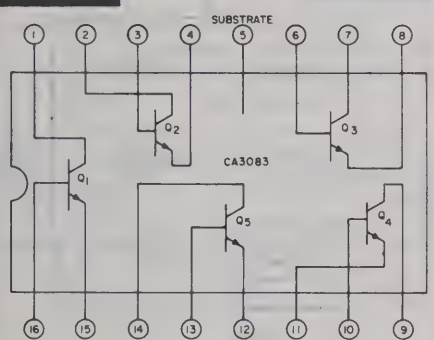
Z161



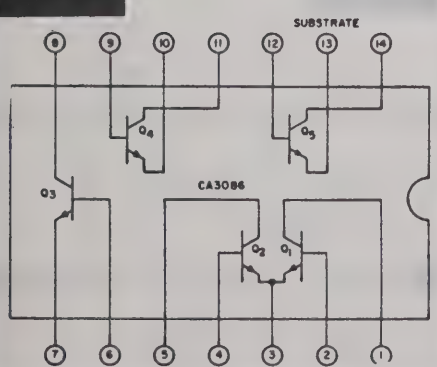
Z162



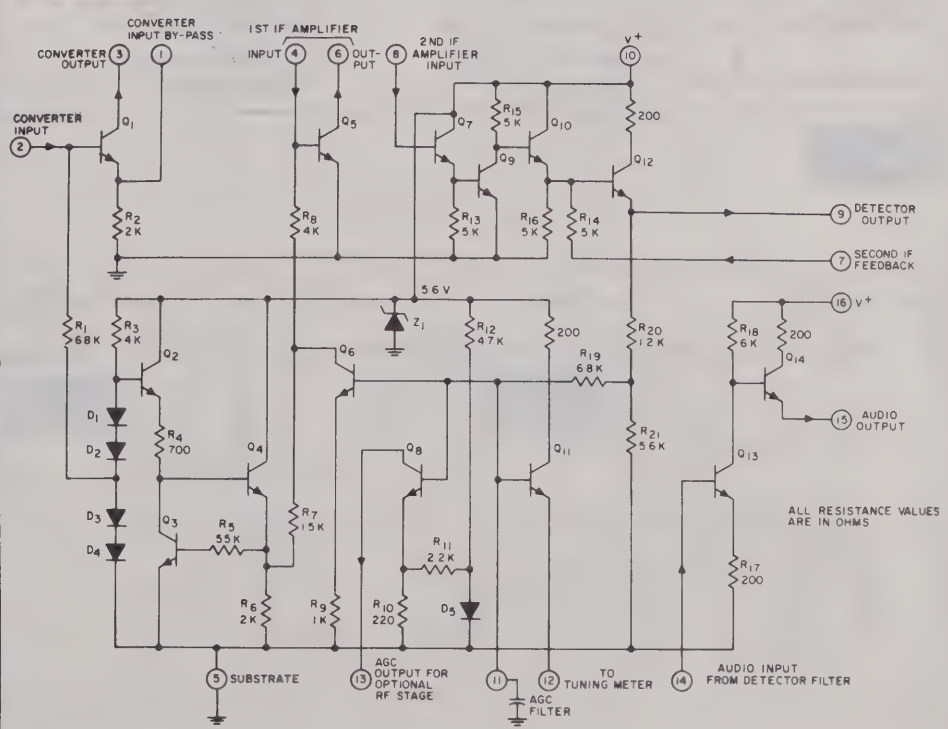
Z163



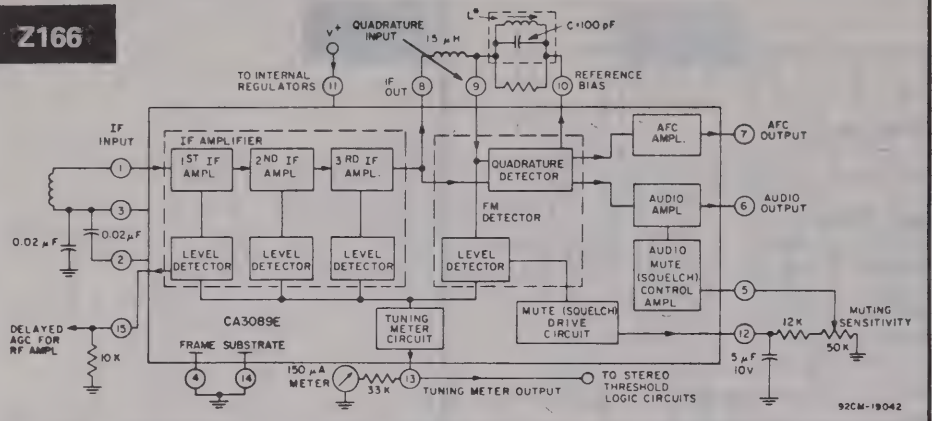
Z164



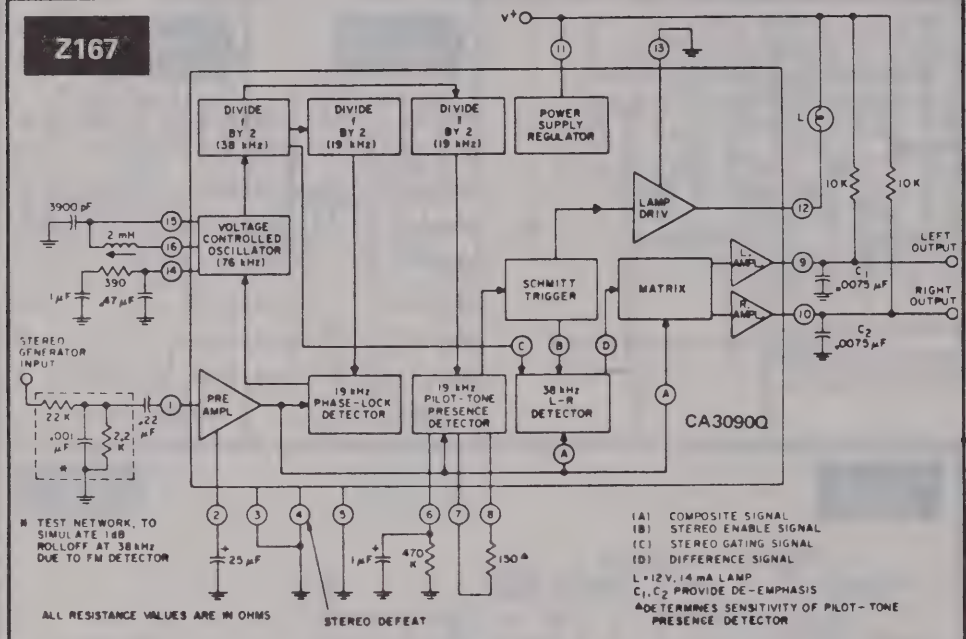
Z165



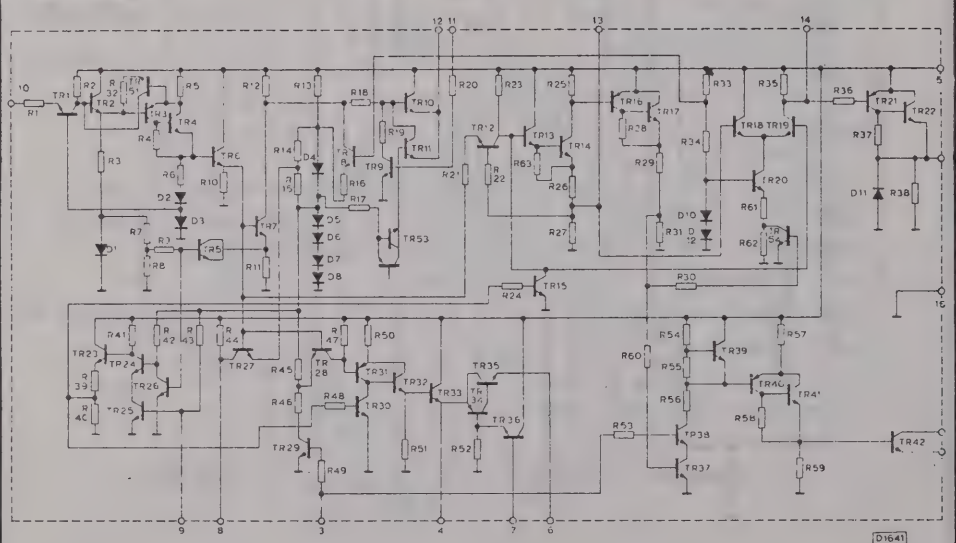
Z166



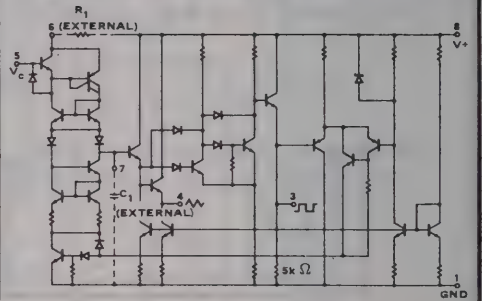
Z167



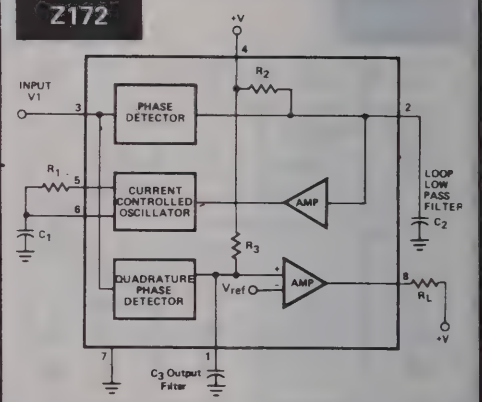
Z170



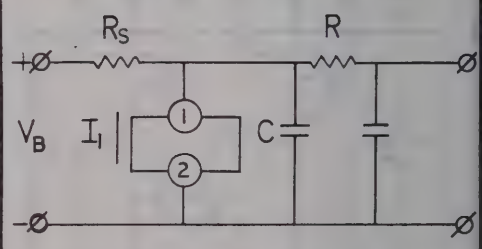
Z171



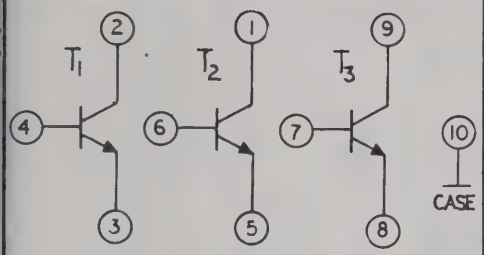
Z172



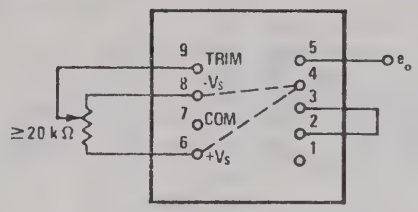
Z173



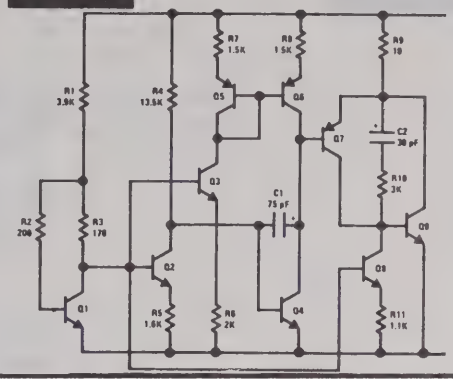
Z174



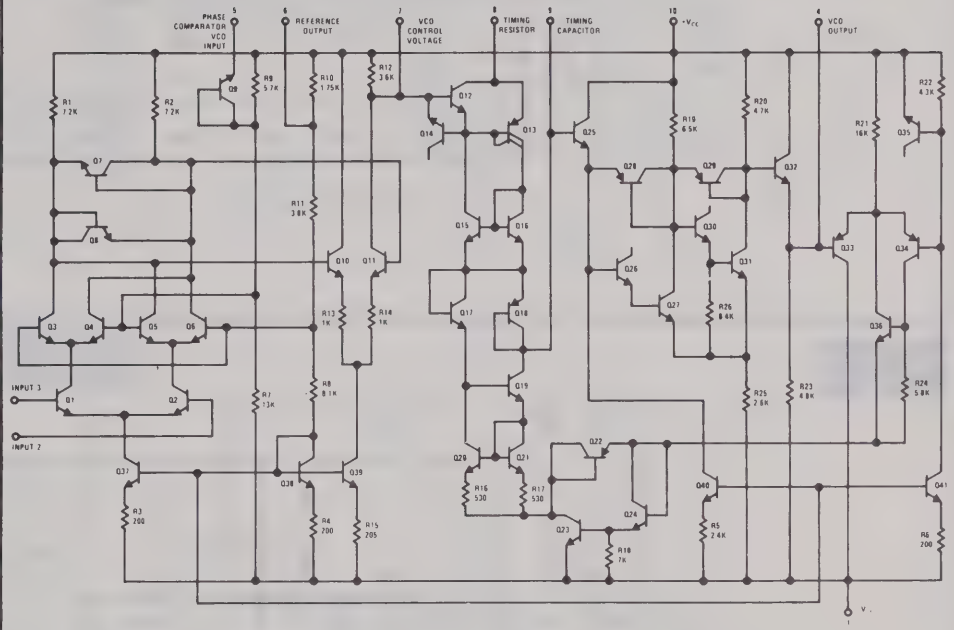
Z175



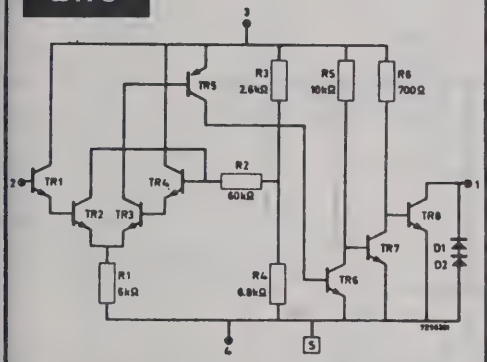
Z176



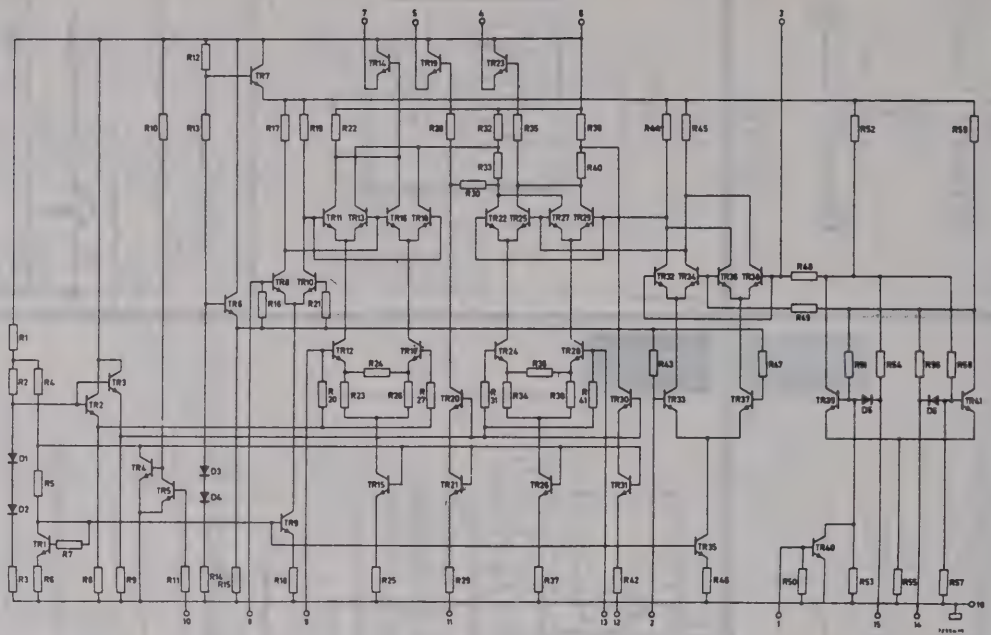
Z177



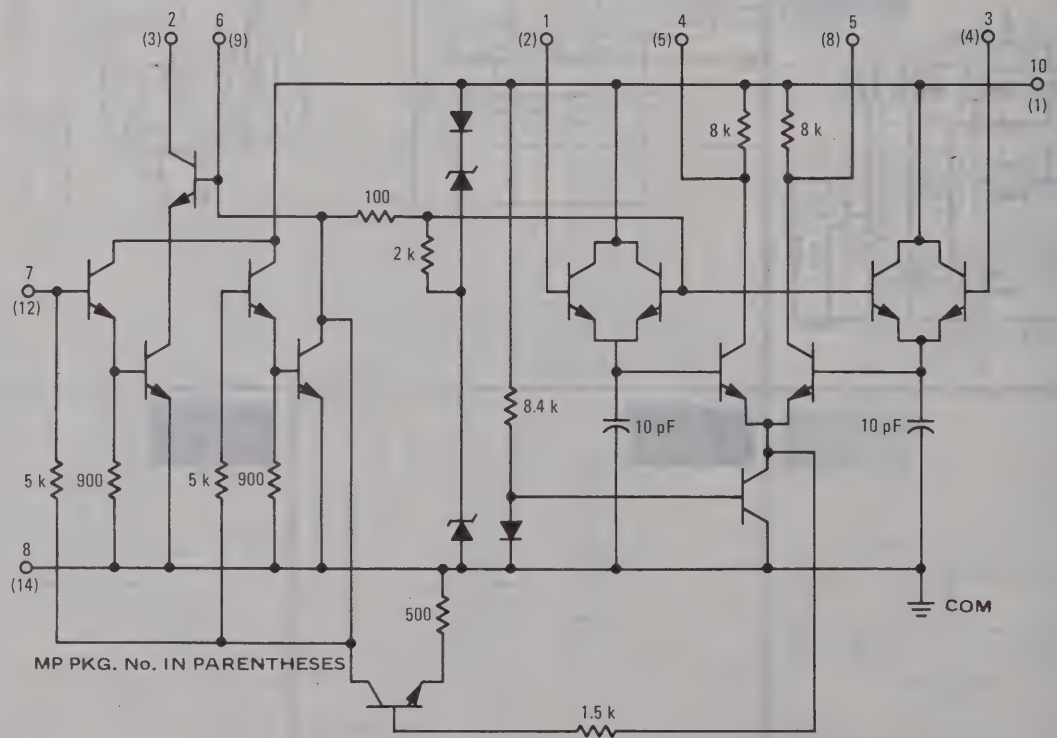
Z178



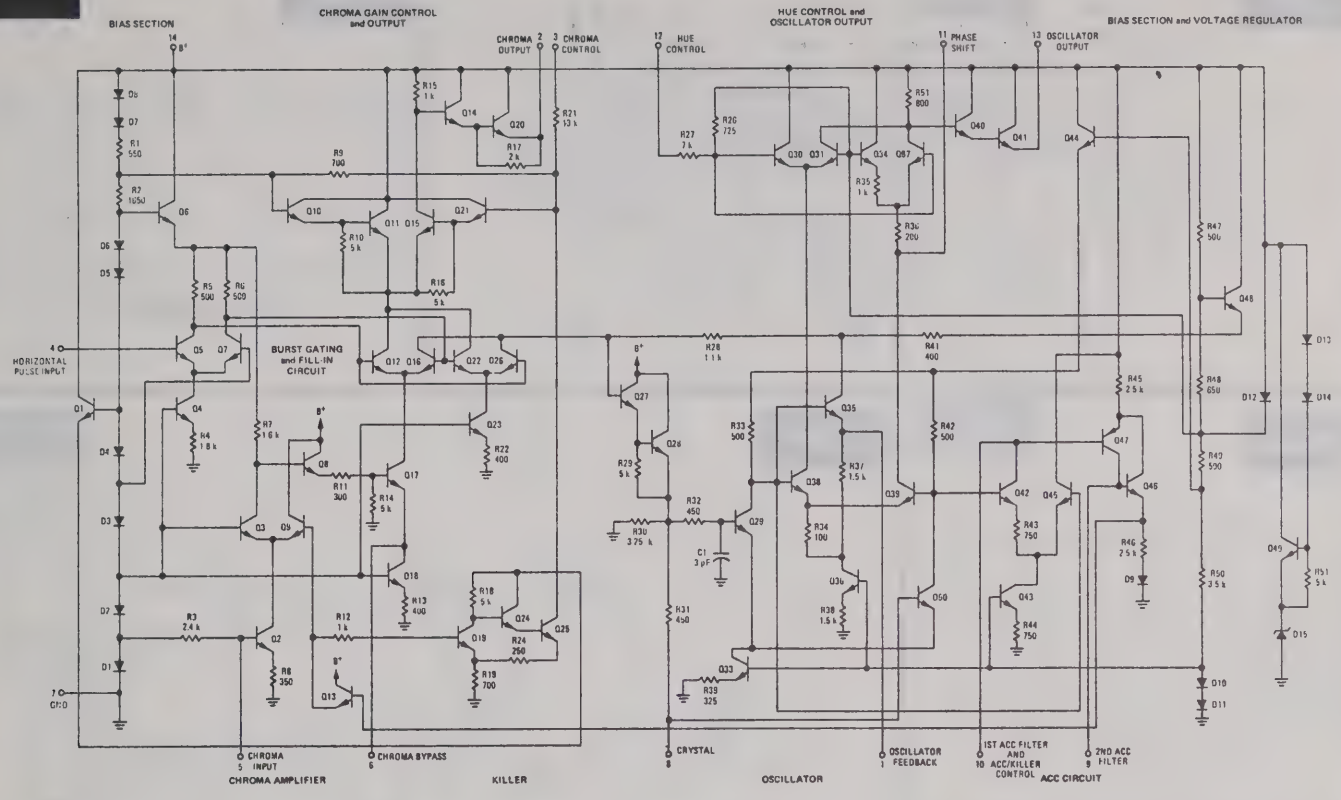
Z179



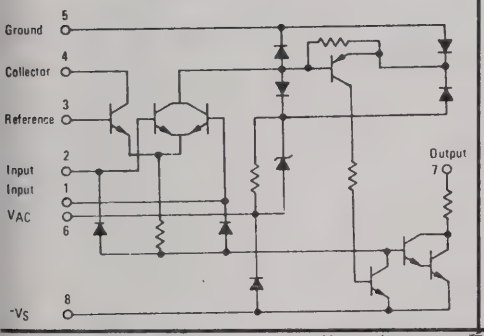
Z181


2
(3)
6
(9)
1
(2)
4
(5)
5
(8)
3
(4)
10
(1)
8 k
8 k
100
2 k
7
(12)
8.4 k
10 pF
10 pF
5 k
900
5 k
900
8
(14)
500
COM
MP PKG. No. IN PARENTHESES
1.5 k

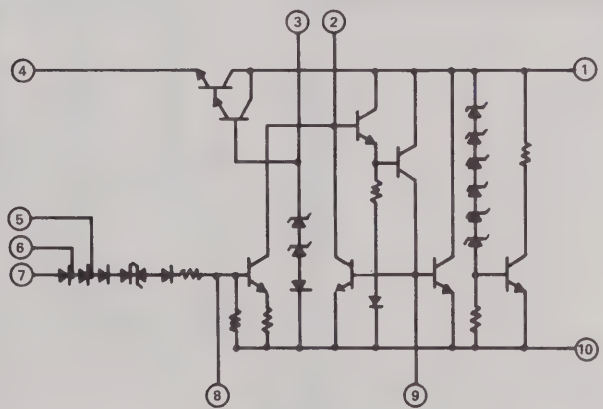
Z182



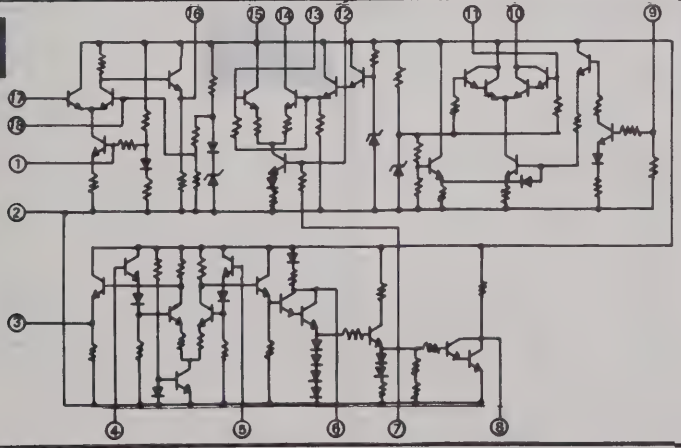
Z183



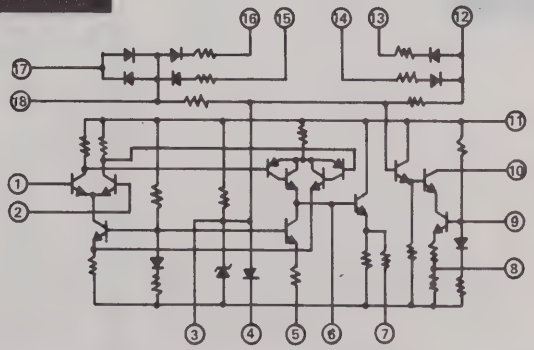
Z184



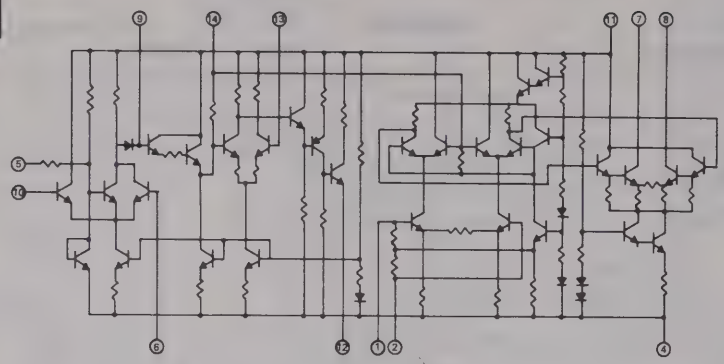
Z185



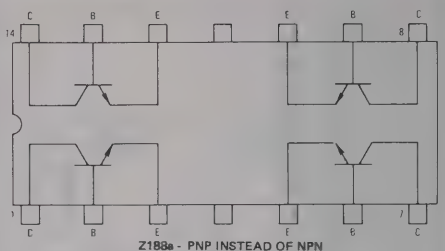
Z186



Z187

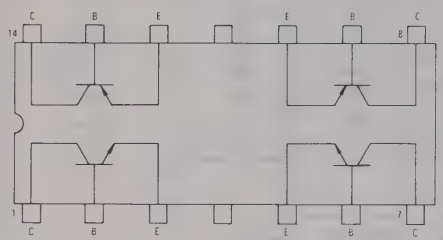


Z188

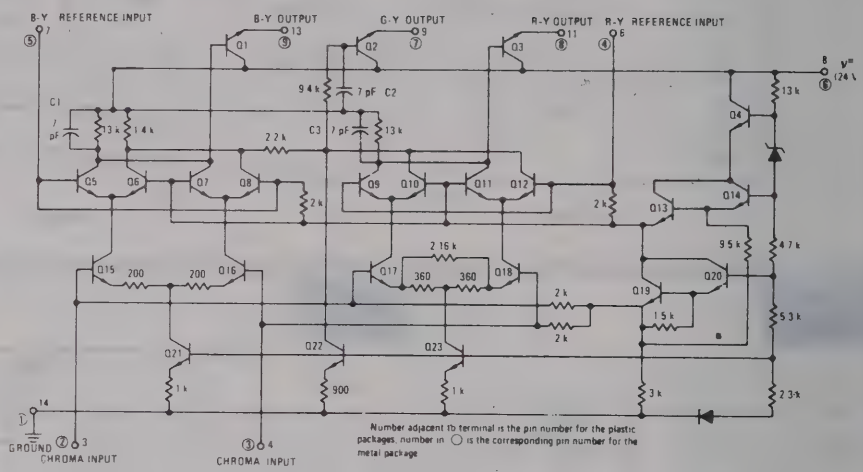


Z188a - PNP INSTEAD OF NPN TRANSISTORS

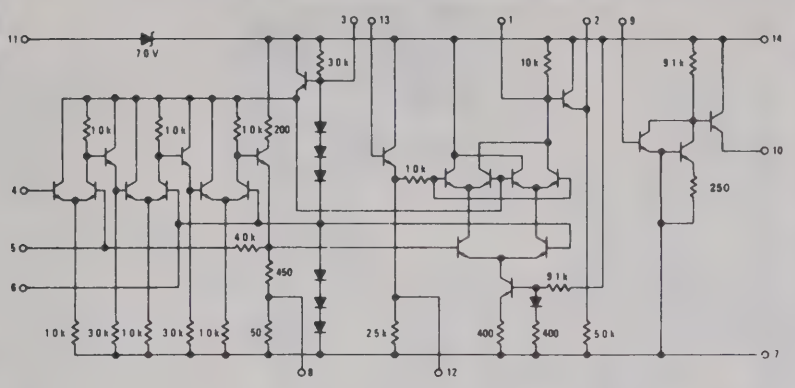
Z189



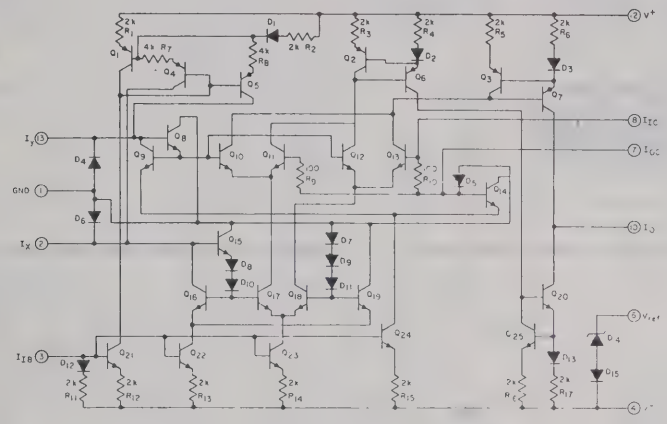
Z190


B-Y REFERENCE INPUT
B-Y OUTPUT
G-Y OUTPUT
R-Y OUTPUT
R-Y REFERENCE INPUT
GROUND
CHROMA INPUT
CHROMA INPUT
Number adjacent to terminal is the pin number for the plastic packages, number in ◯ is the corresponding pin number for the metal package

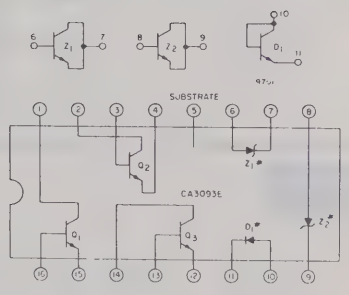
Z192



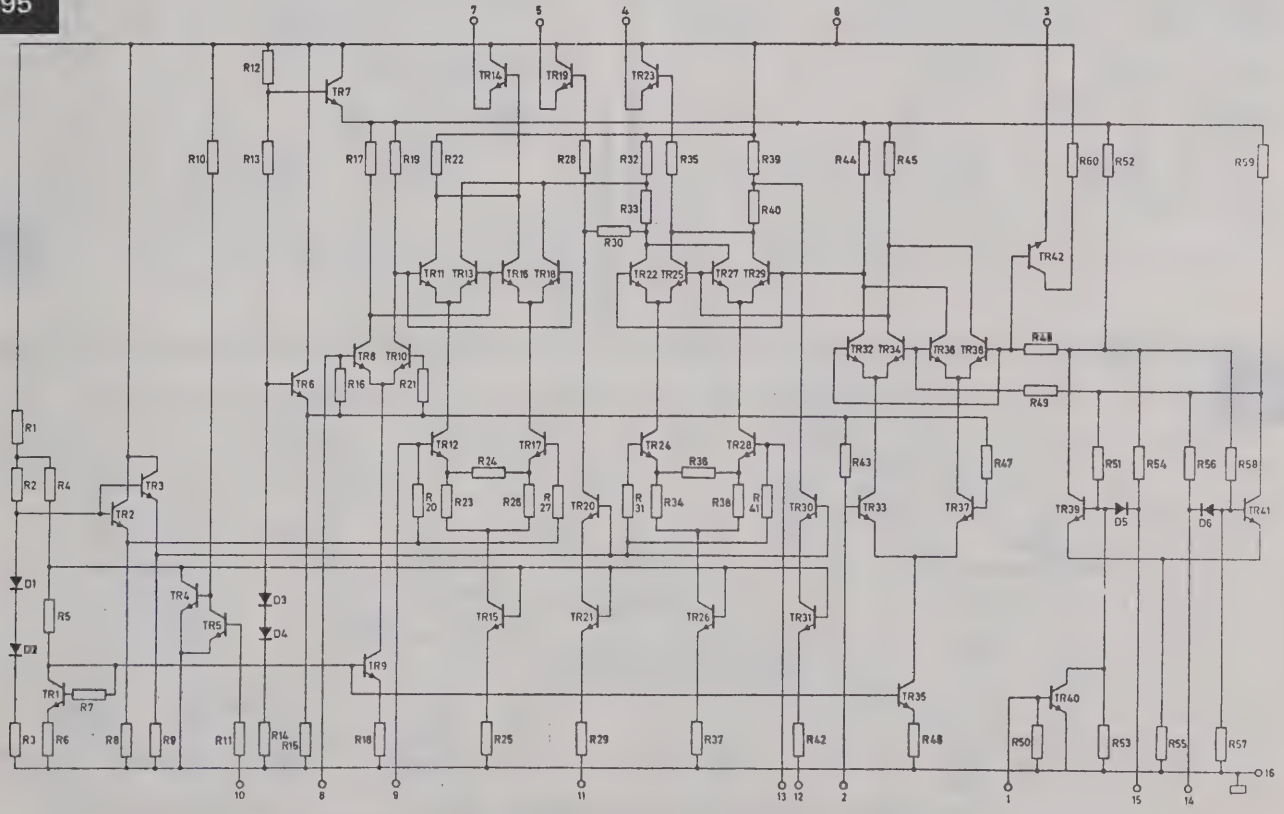
Z193



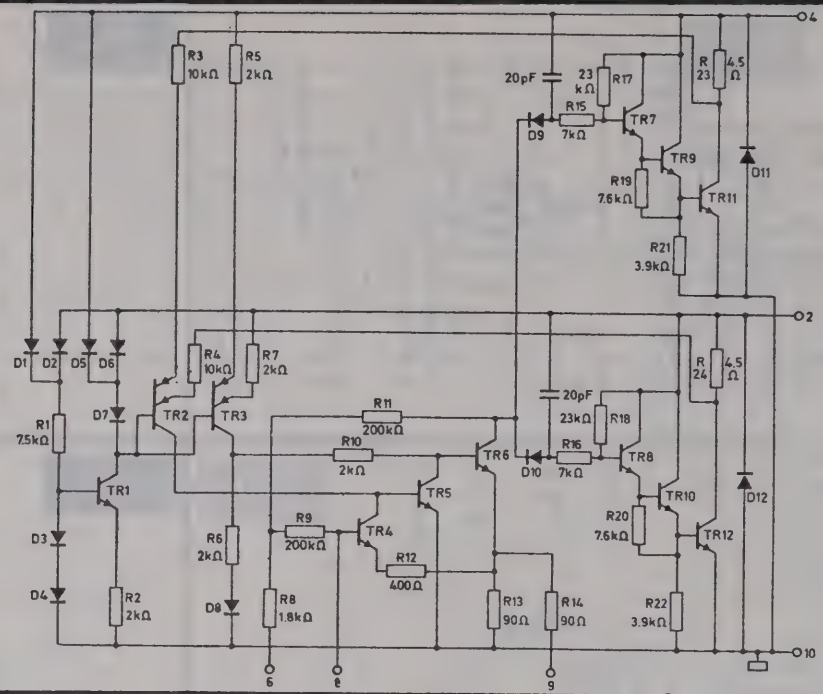
Z194



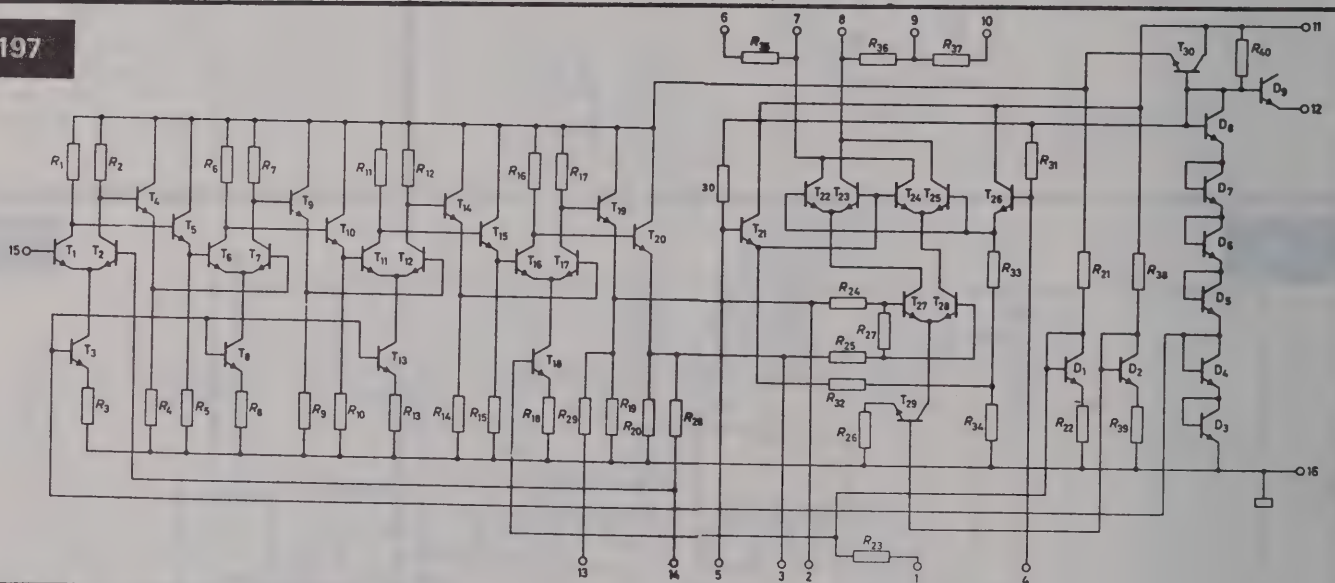
Z195



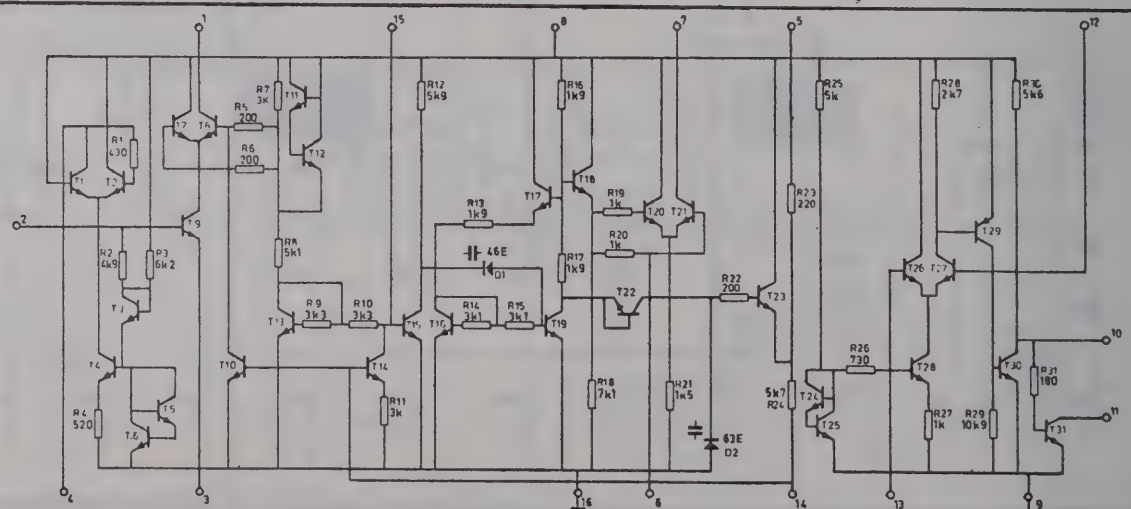
Z196



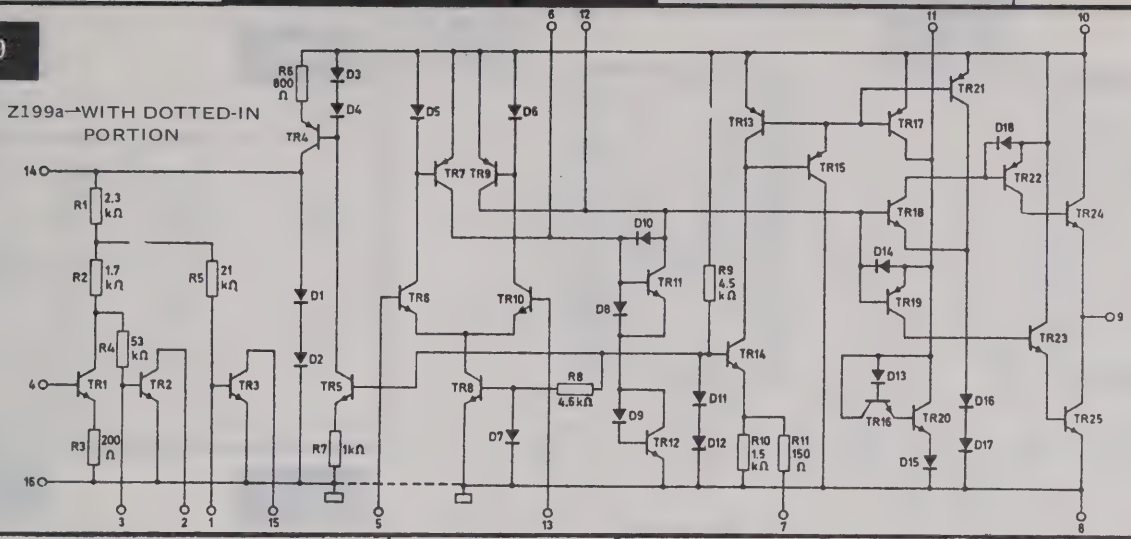
Z197



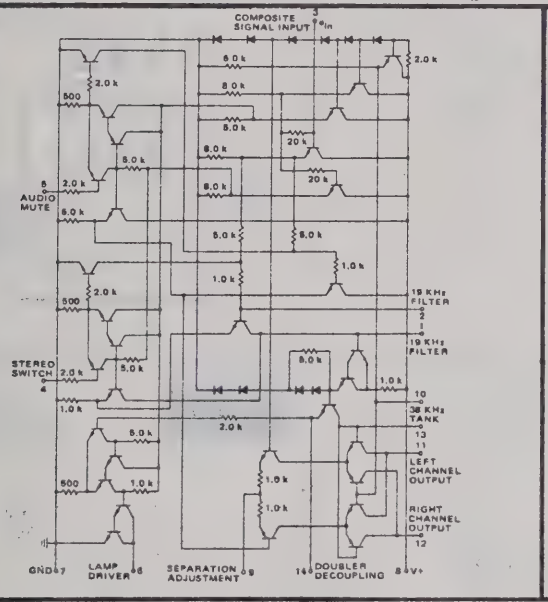
Z198



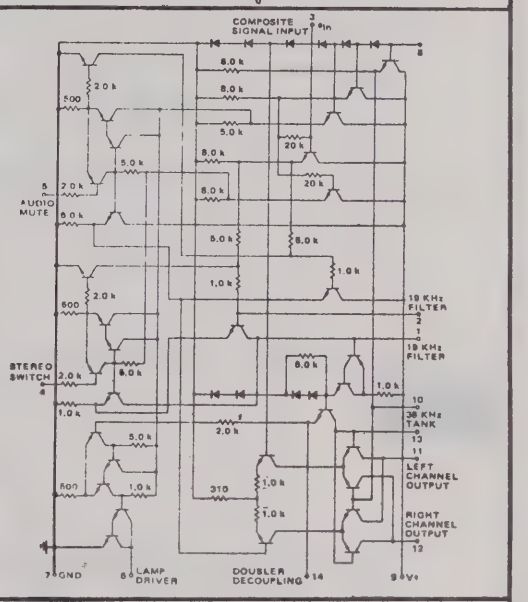
Z199


Z199a → WITH DOTTED-IN PORTION
R1 2.3 kΩ
R2 1.7 kΩ
R3 200 Ω
R4 53 kΩ
R5 21 kΩ
R6 800 Ω
R7 1kΩ
R8 4.5kΩ
R9 4.5 kΩ
R10 1.5 kΩ
R11 150 Ω
TR1 TR2 TR3 TR4 TR5 TR6 TR7 TR8 TR9 TR10 TR11 TR12 TR13 TR14 TR15 TR16 TR17 TR18 TR19 TR20 TR21 TR22 TR23 TR24 TR25
D1 D2 D3 D4 D5 D6 D7 D8 D9 D10 D11 D12 D13 D14 D15 D16 D17 D18

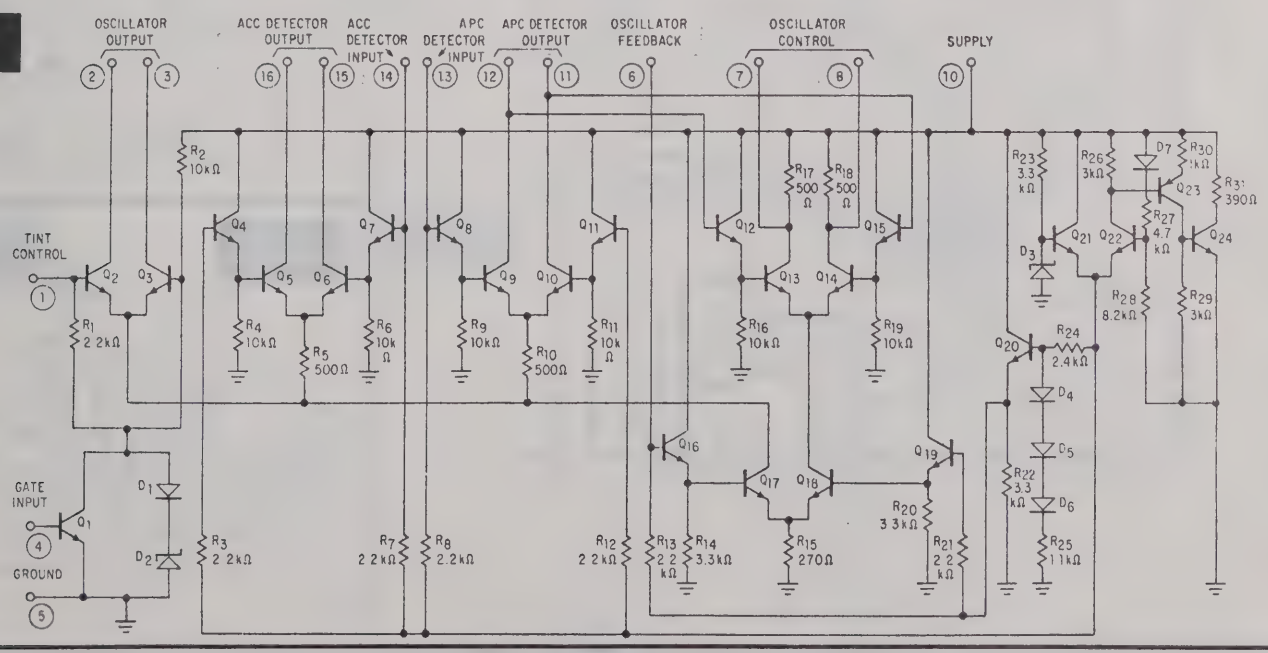
Z202



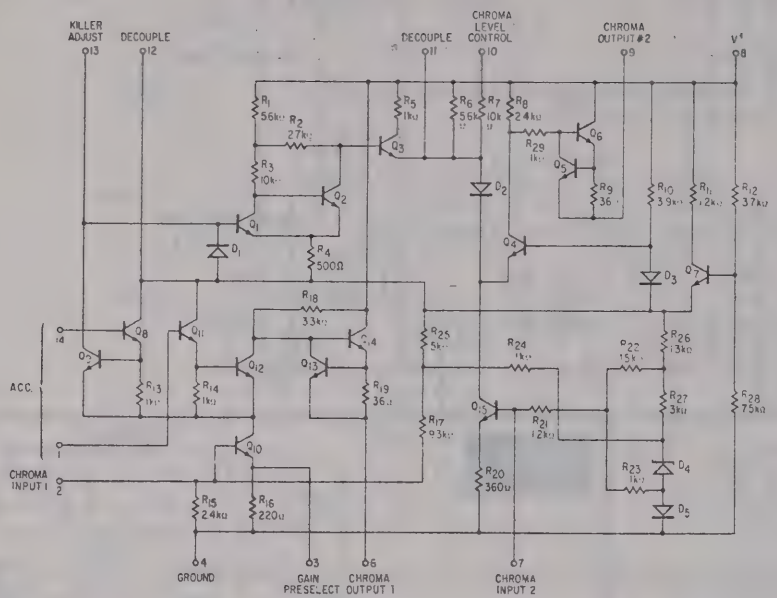
Z203



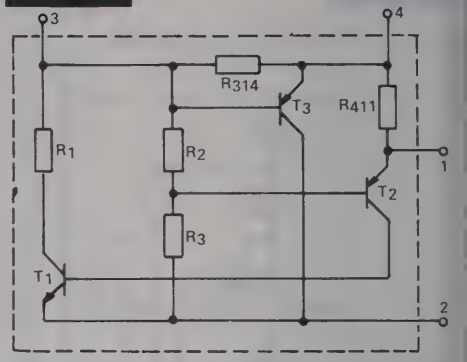
Z205



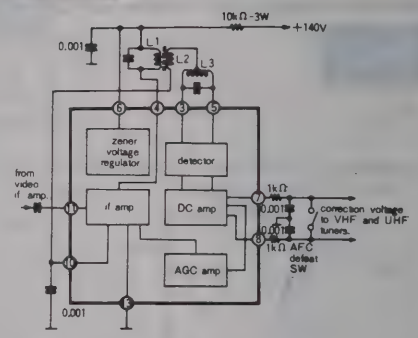
Z206



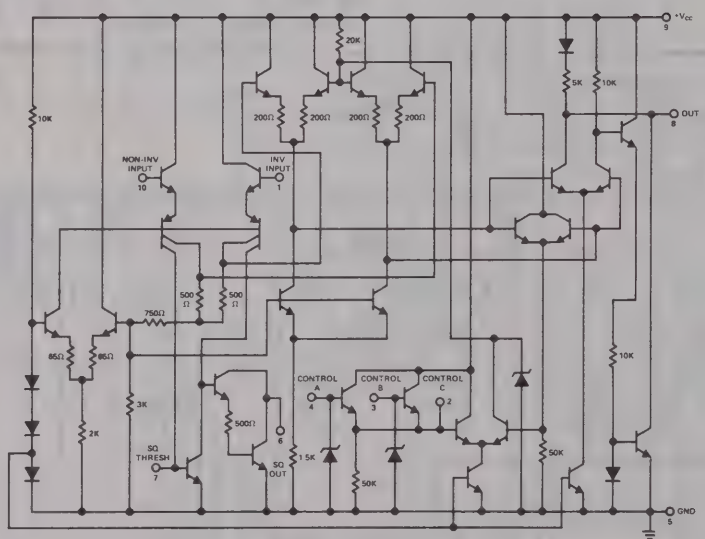
Z208



Z210

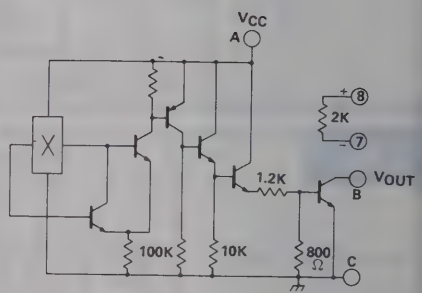


Z217



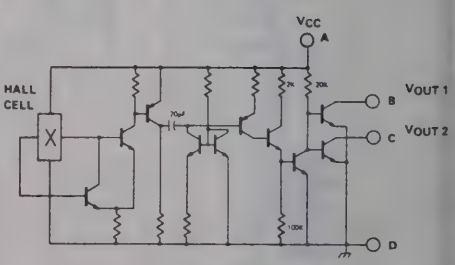
Z218

	A	B	C
Z218	2	6	4
Z218a	1	3	2

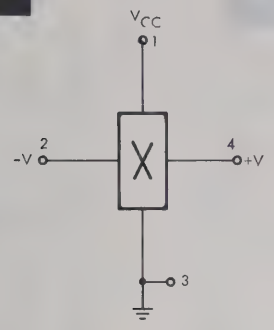


Z219

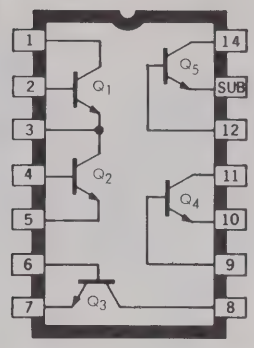
	A	B	C	D
Z219	2	6	7	4
Z219a	1	3	4	2



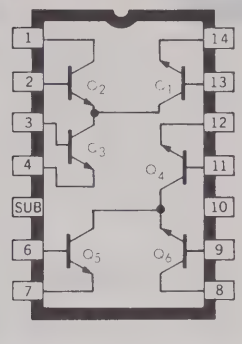
Z220



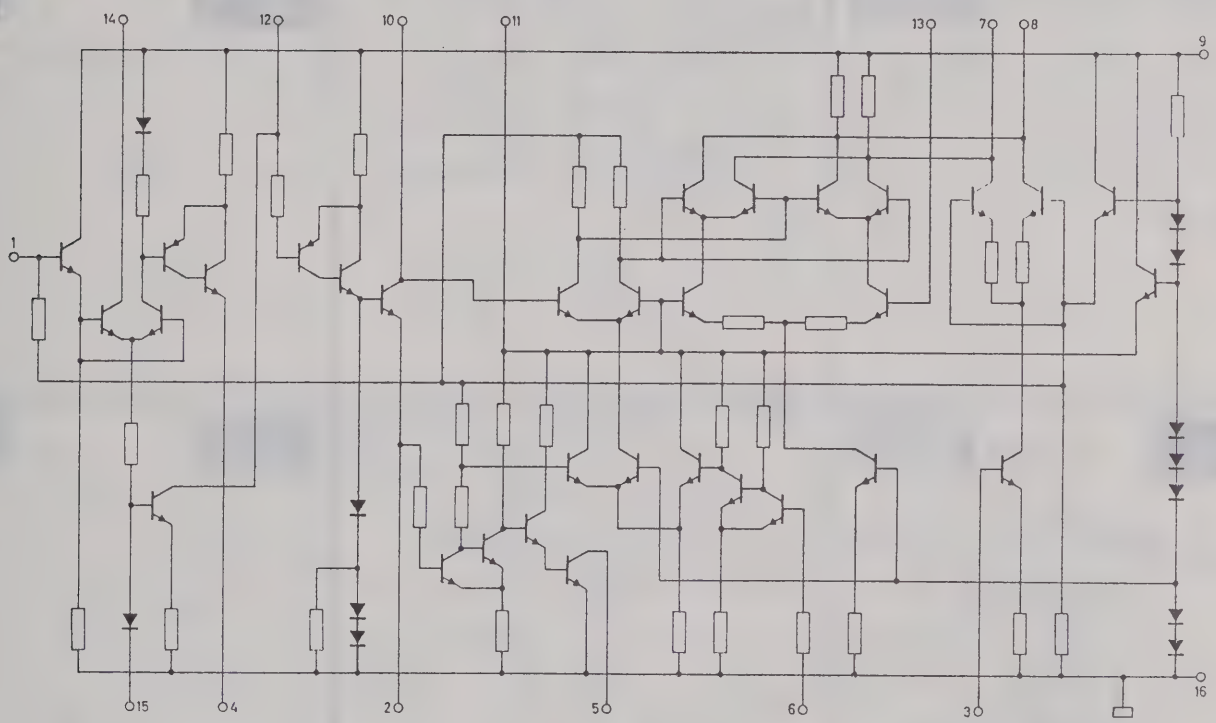
Z221



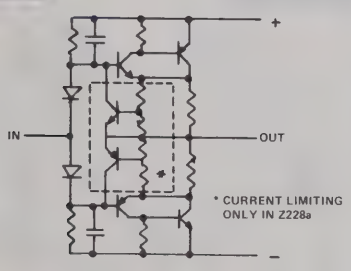
Z222



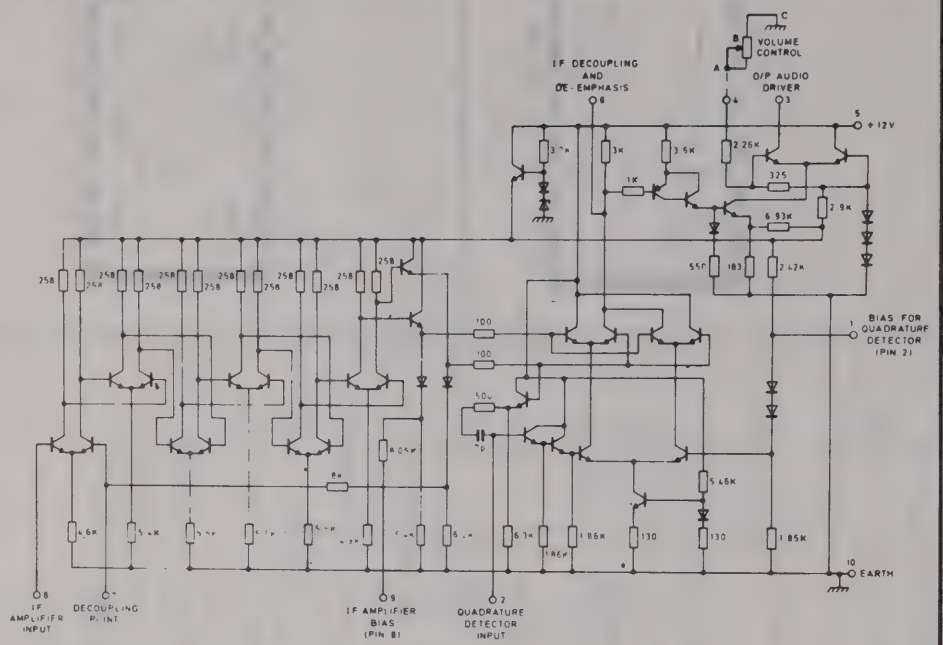
Z223



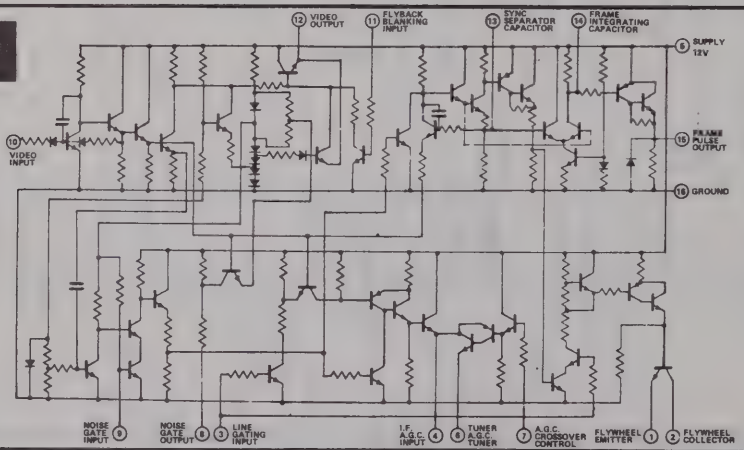
Z228



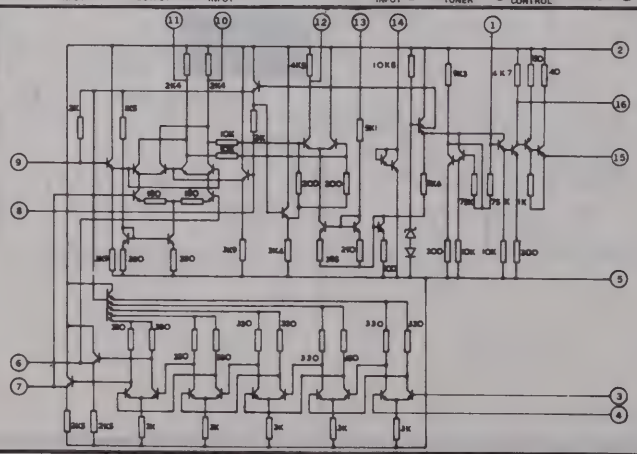
Z229



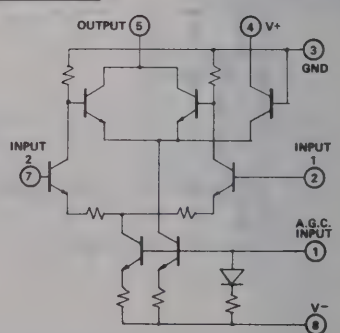
Z230



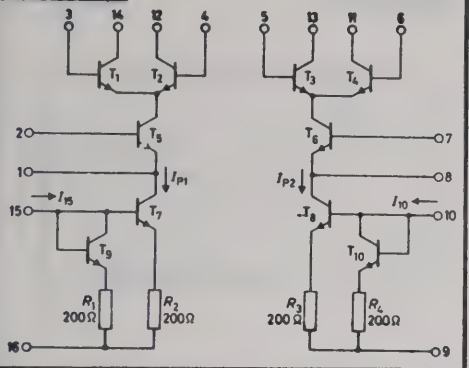
Z231



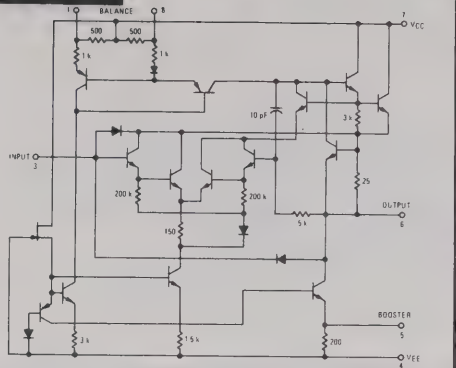
Z232



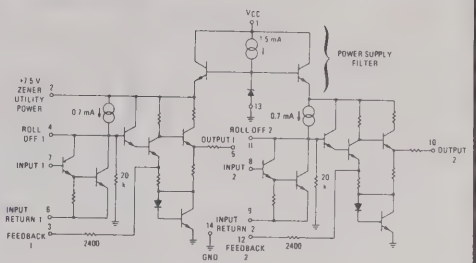
Z234



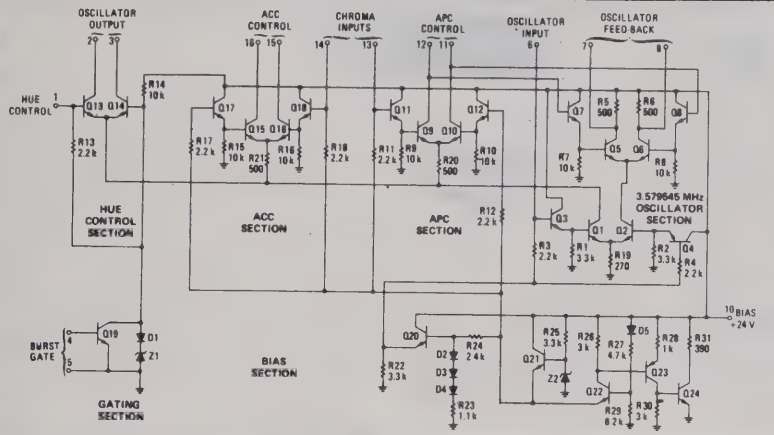
Z235



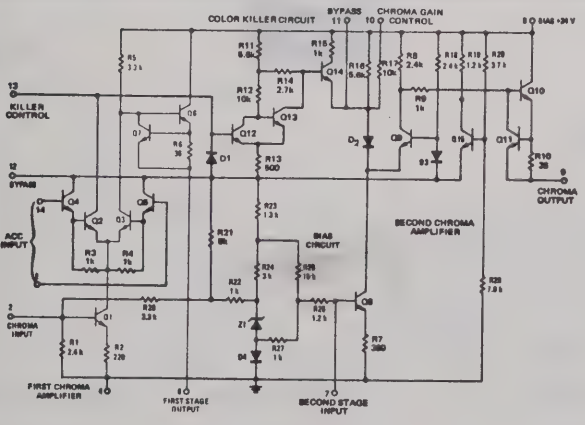
Z236



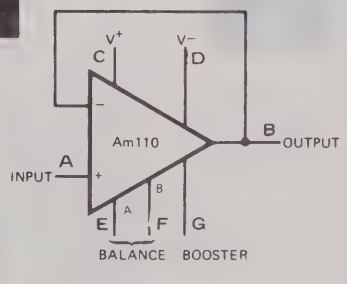
Z237



Z238

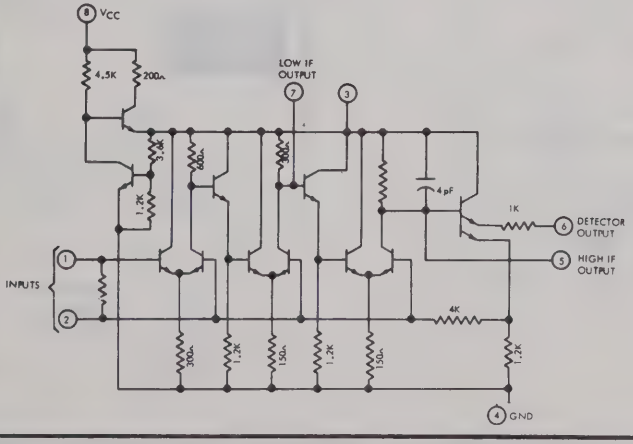


Z239

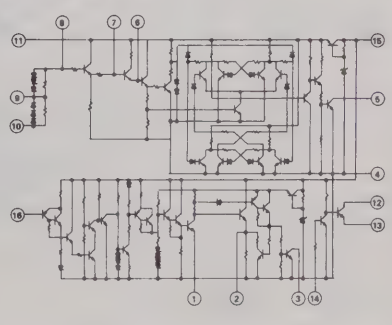


	PKG	A	B	C	D	E	F	G
Z239	CN	3	6	7	4	1	8	5
	FP	4	7	8	5	2	9	6
	MP	5	10	11	6	3	12	9

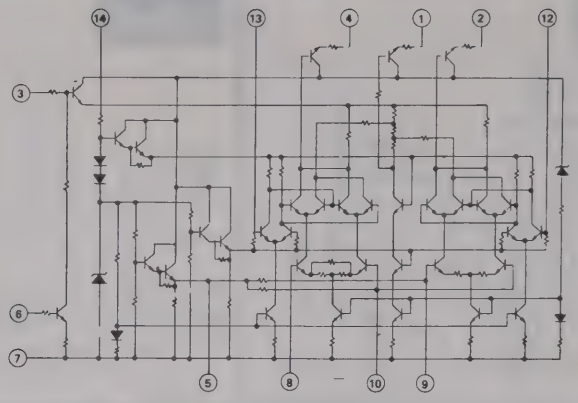
Z243



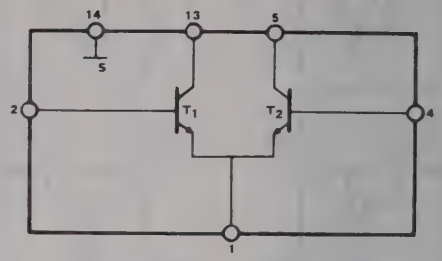
Z245



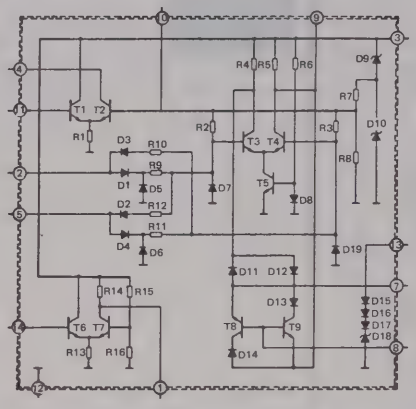
Z246



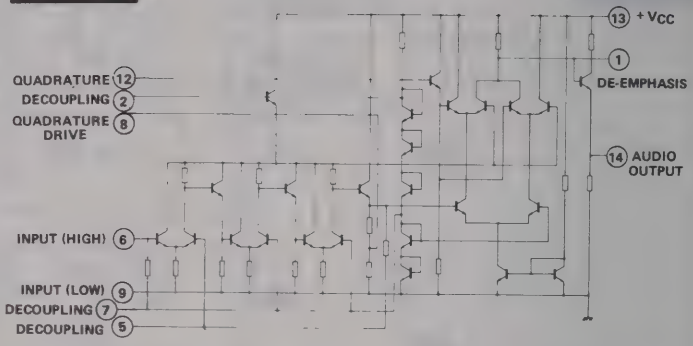
Z247



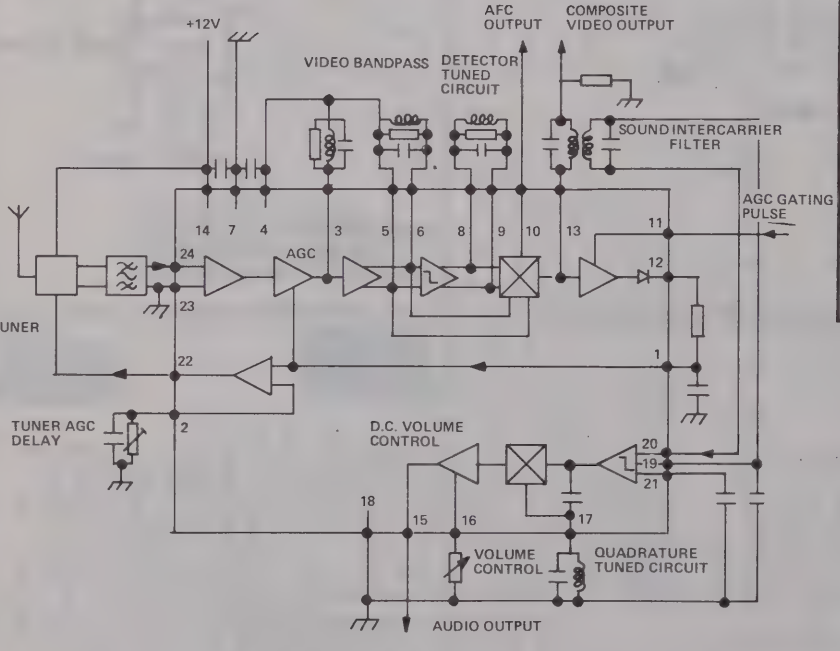
Z248



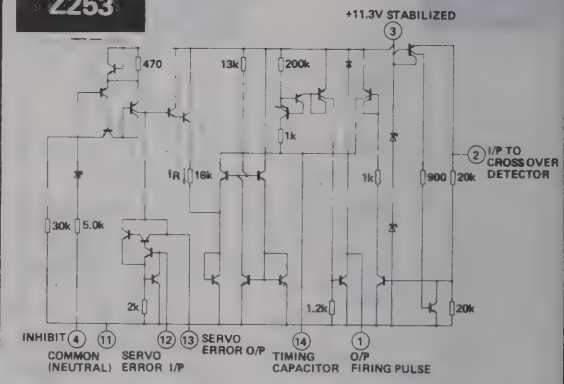
Z250



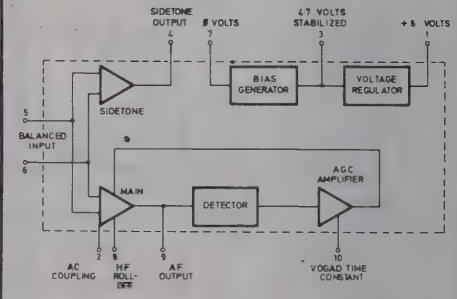
Z252



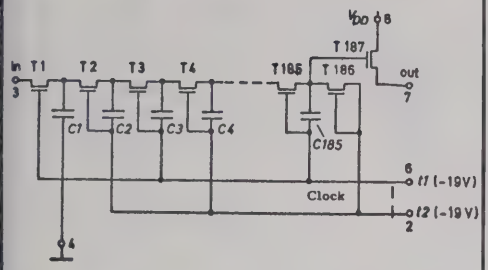
Z253



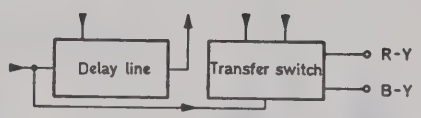
Z254



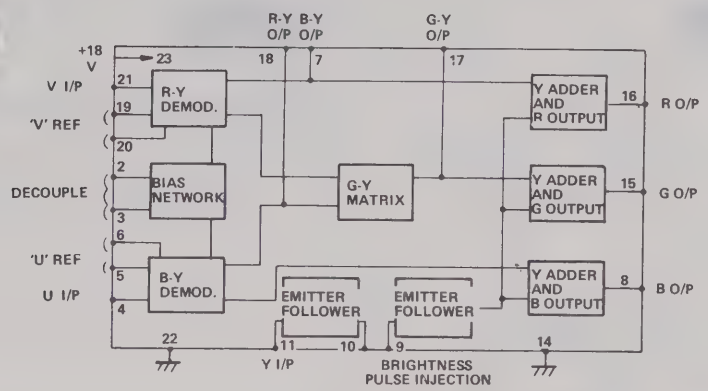
Z255



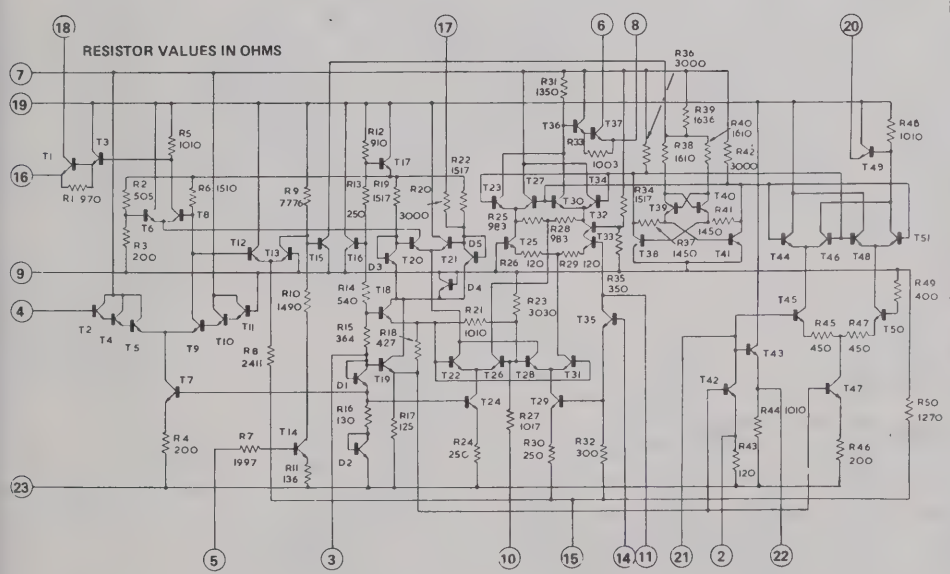
Z256



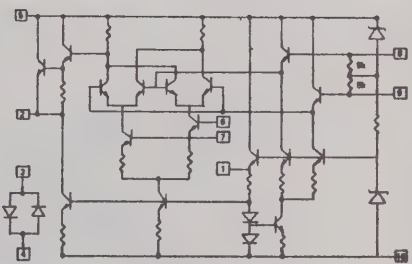
Z257



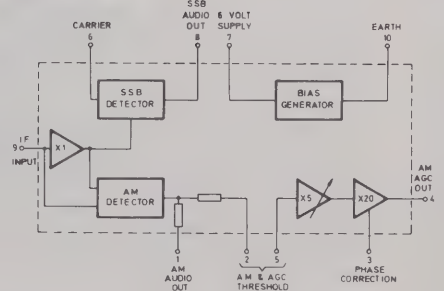
Z258



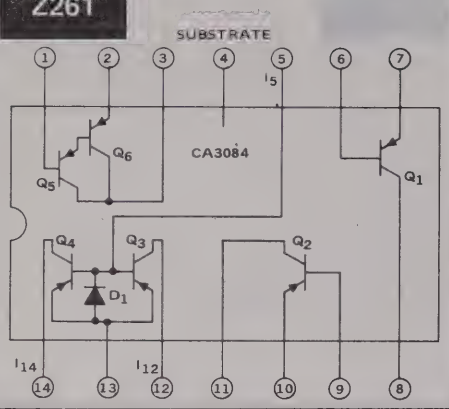
Z259



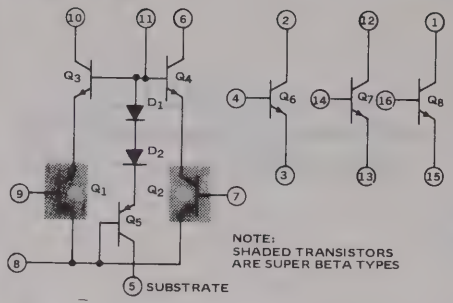
Z260



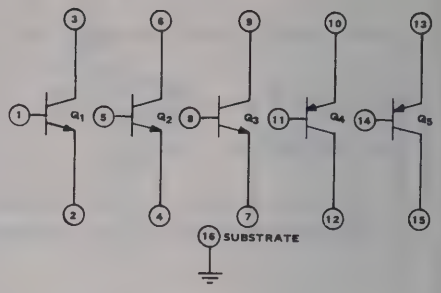
Z261



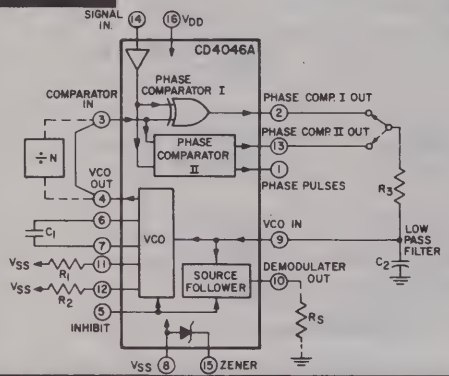
Z262



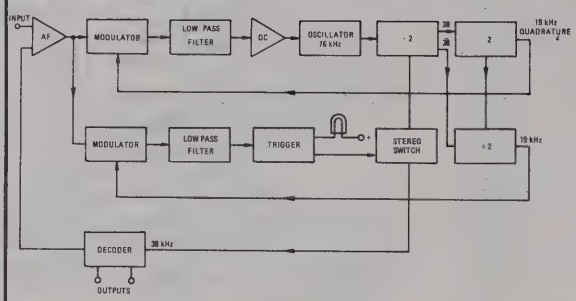
Z263



Z264



Z265



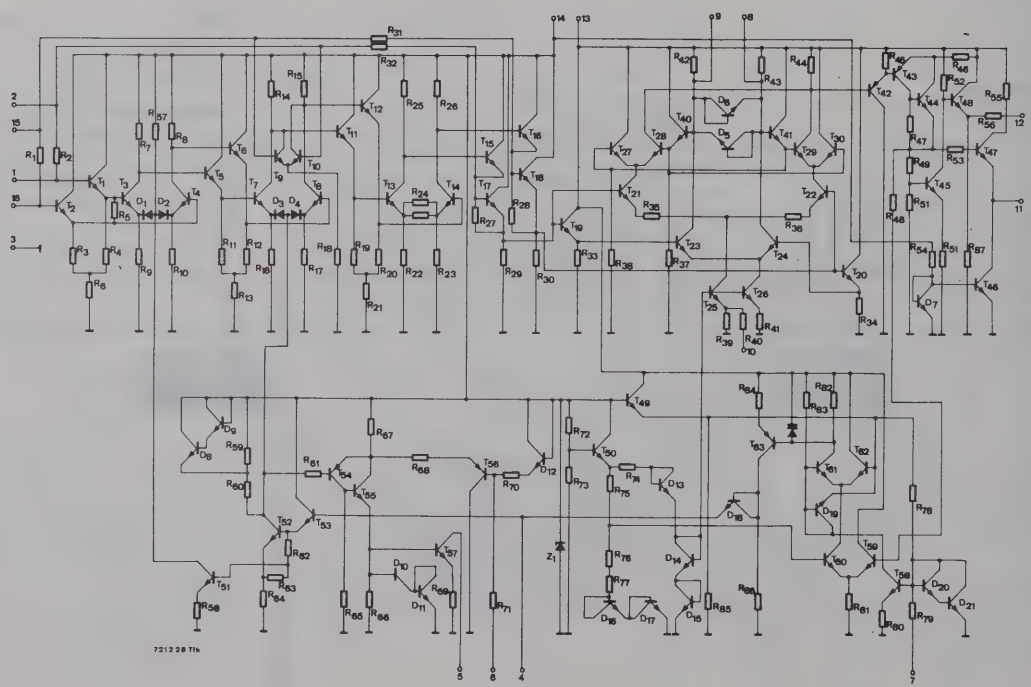
PIN FUNCTIONS

Pin 1 = V_{CC}	Pin 8 = Switch Filter
Pin 2 = Input	Pin 9 = Switch Filter
Pin 3 = Amplifier Output	Pin 10 = 19 kHz Output
Pin 4 = Left Channel Output	Pin 11 = Modulator Input
Pin 5 = Right Channel Output	Pin 12 = Loop Filter
Pin 6 = Lamp Indicator	Pin 13 = Loop Filter
Pin 7 = Ground	Pin 14 = Oscillator RC Network

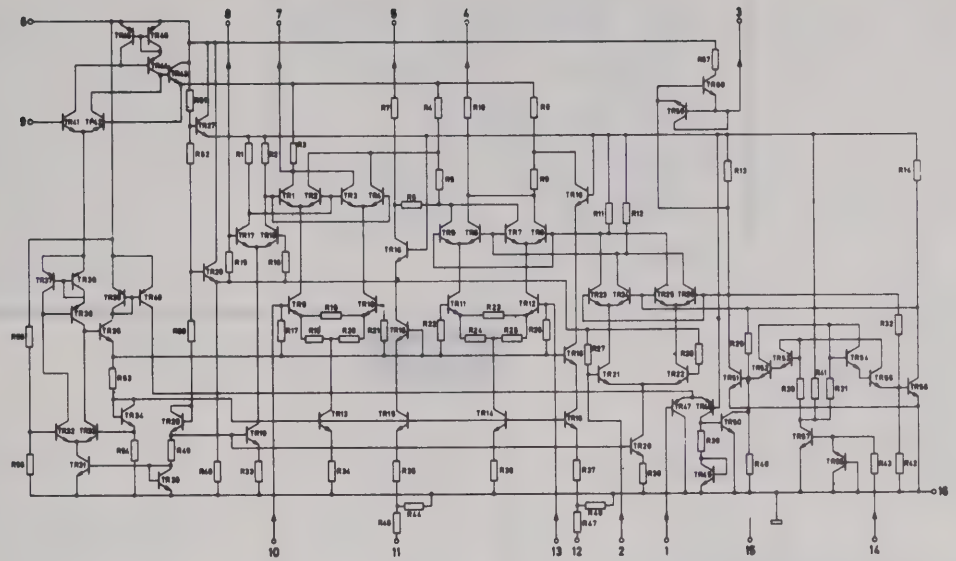
PARTS LIST

C_1 = 2.0 µF	C_8 = 0.25 µF
C_2 = 0.02 µF	R_1 = 3.9 kΩ
C_3 = 0.02 µF	R_2 = 3.9 kΩ
C_4 = 0.25 µF	R_3 = 1.0 kΩ
C_5 = 0.05 µF	R_4 = 16 kΩ
C_6 = 0.5 µF	R_5 = 5.0 kΩ
C_7 = 470 pF	

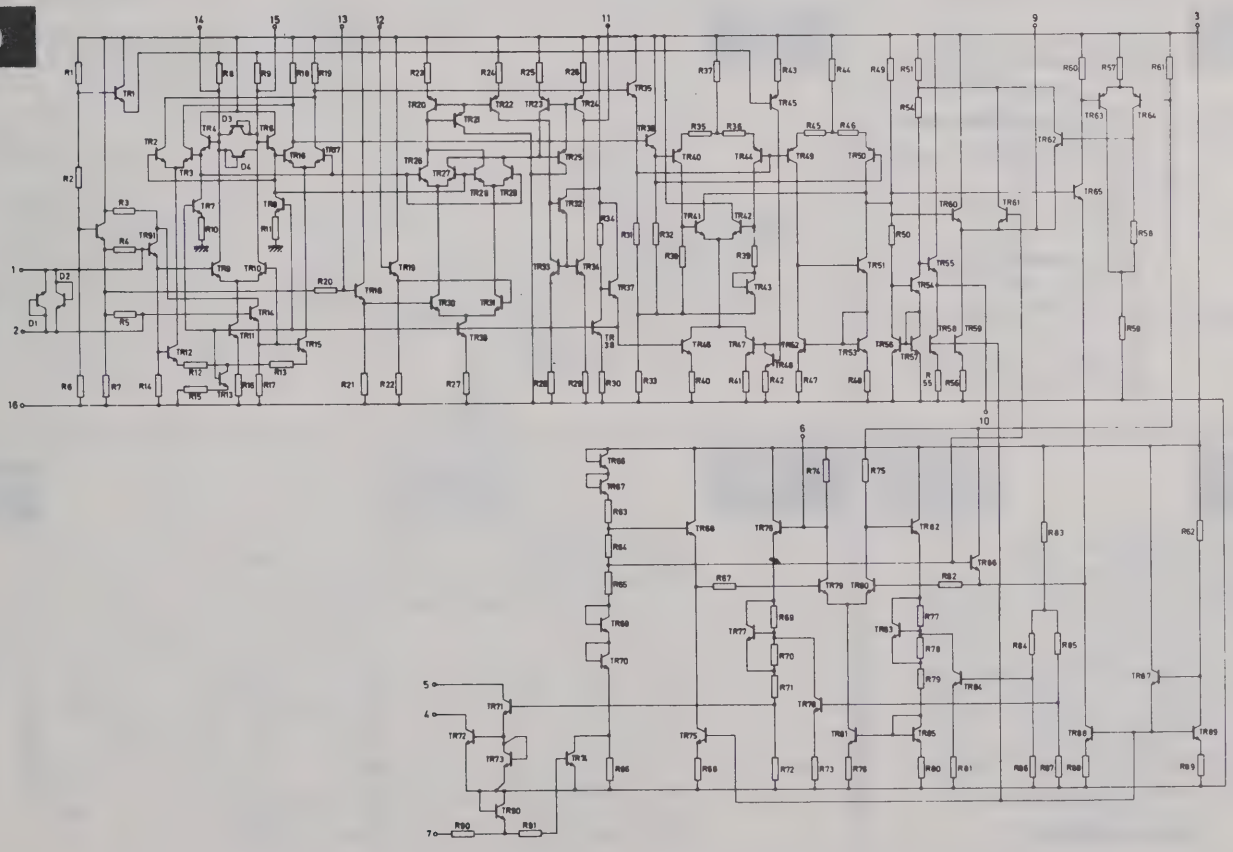
Z267



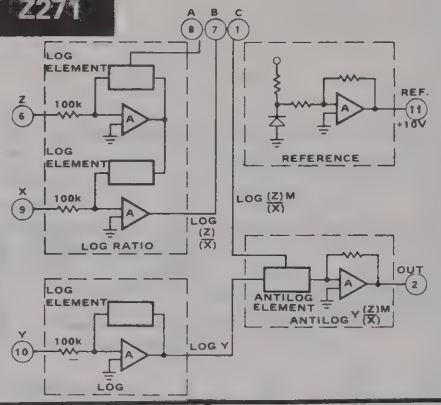
Z268



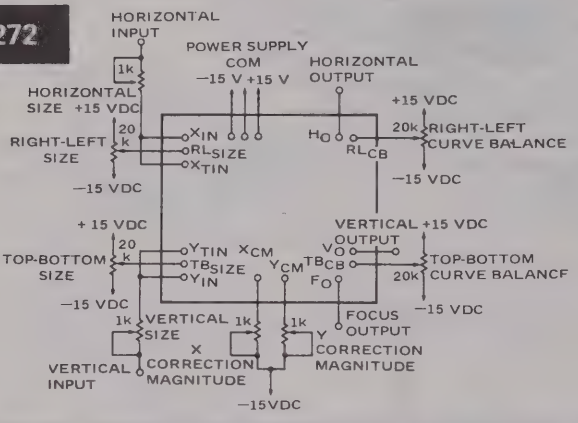
Z269



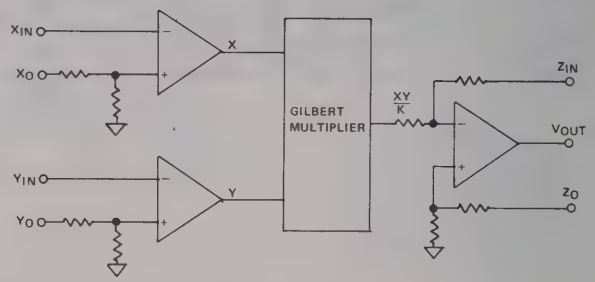
Z271



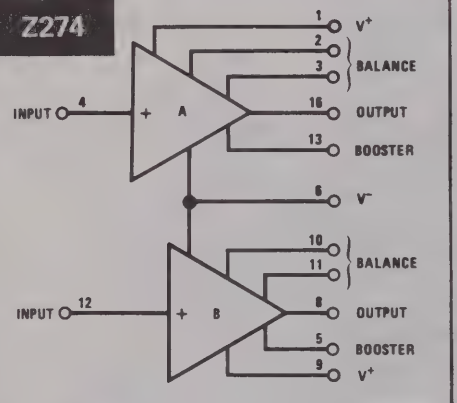
Z272



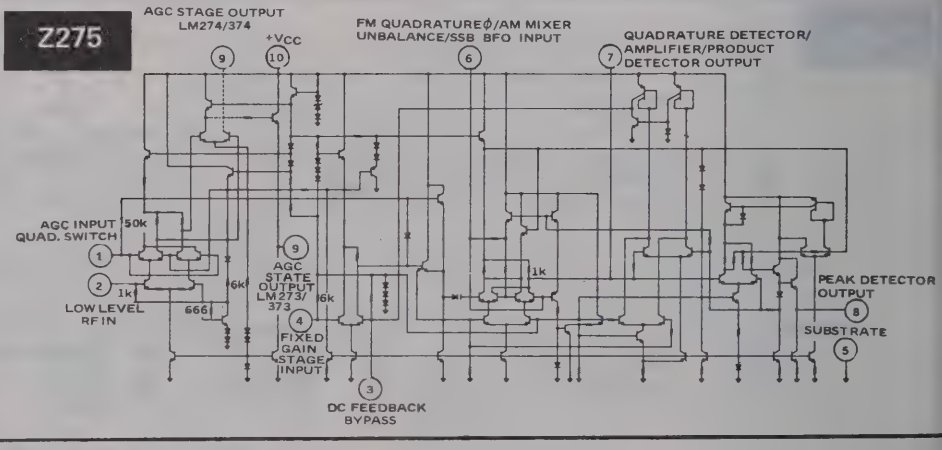
Z273



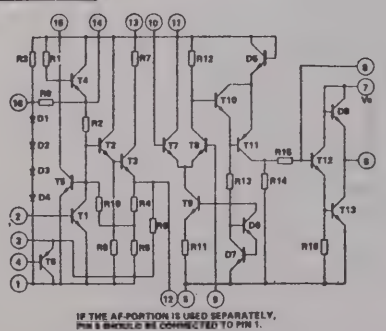
Z274



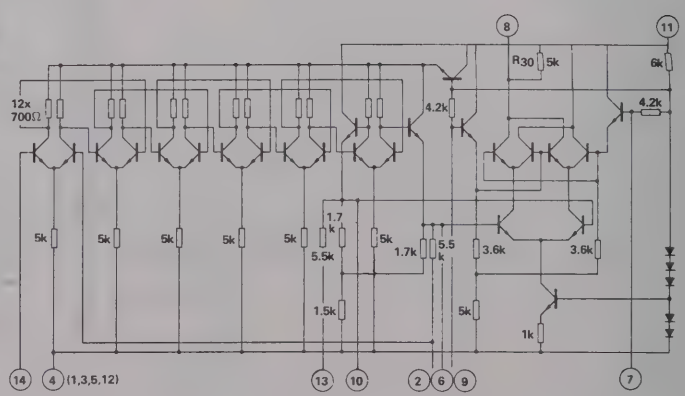
Z275



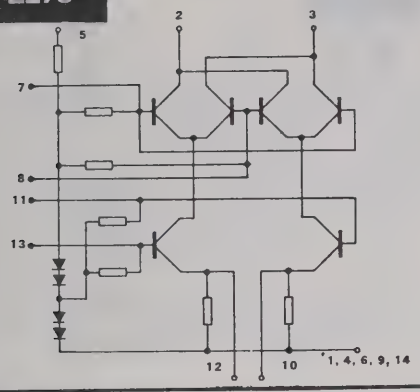
Z276



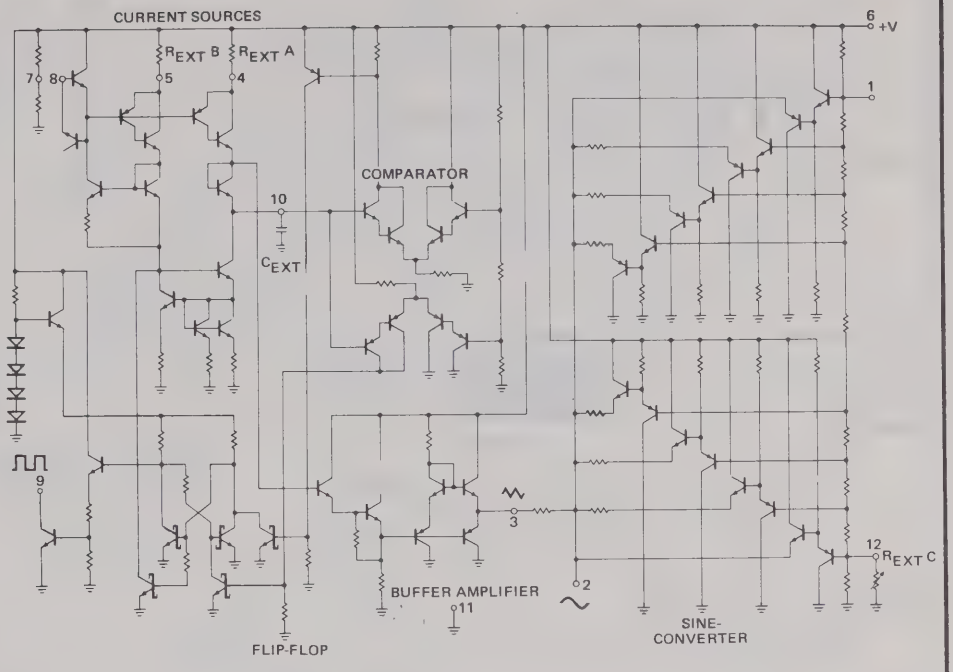
Z277



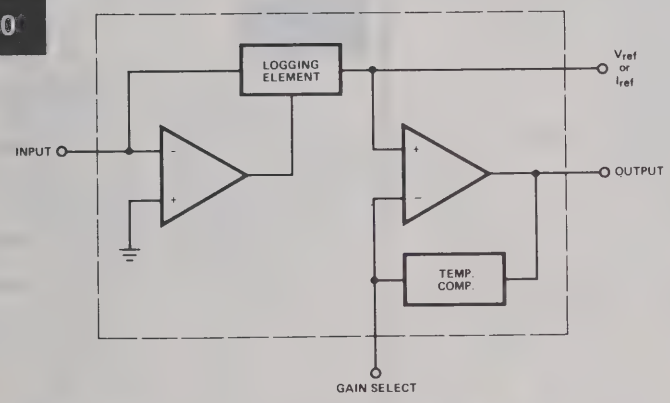
Z278

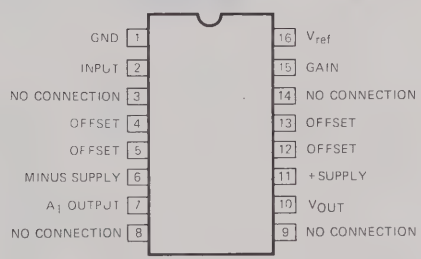


Z279

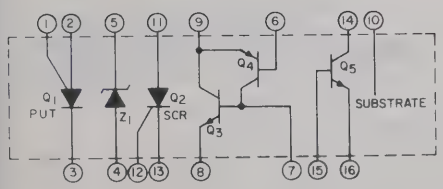


Z280

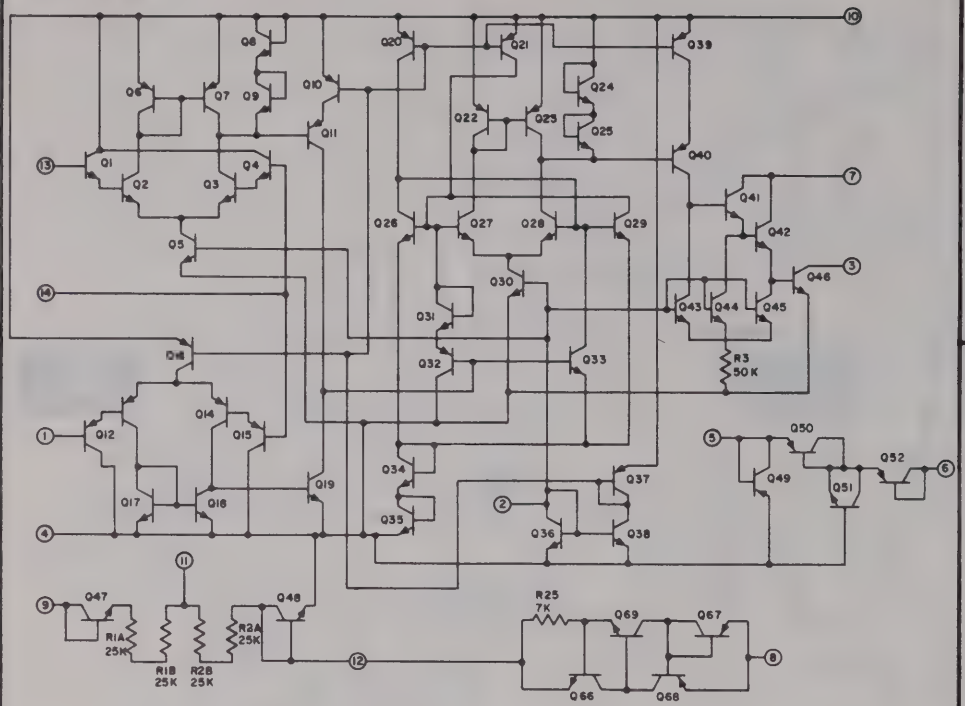




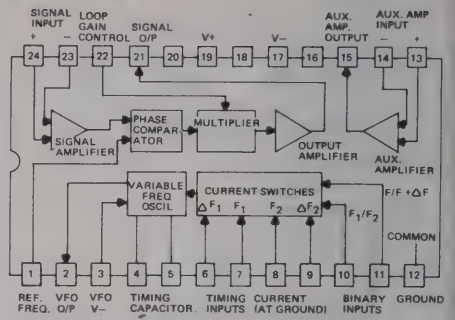
Z281



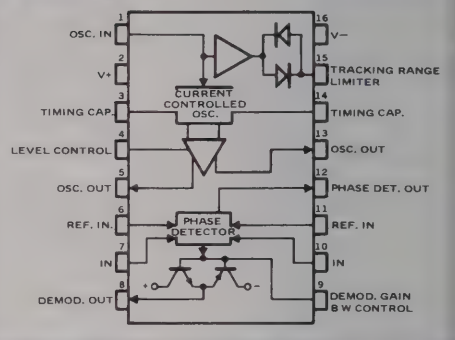
Z282



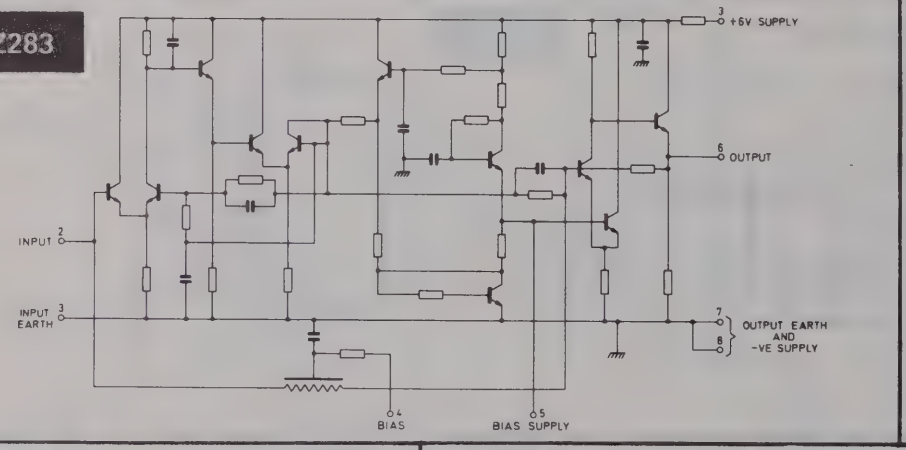
Z284



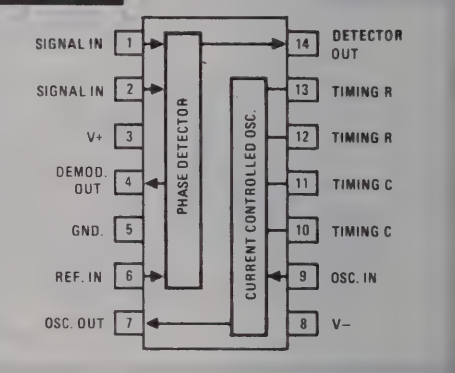
Z285



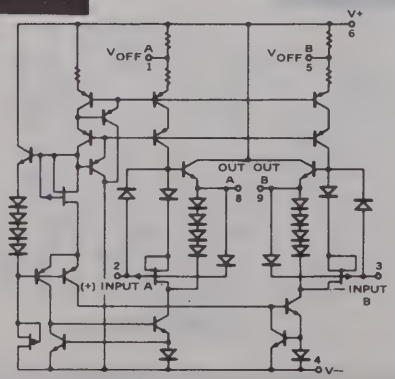
Z283



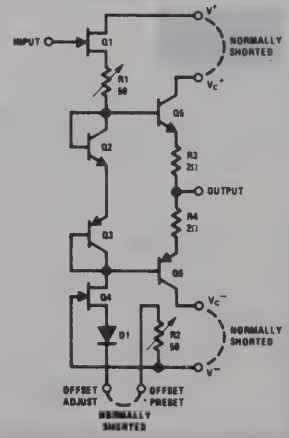
Z286



Z287



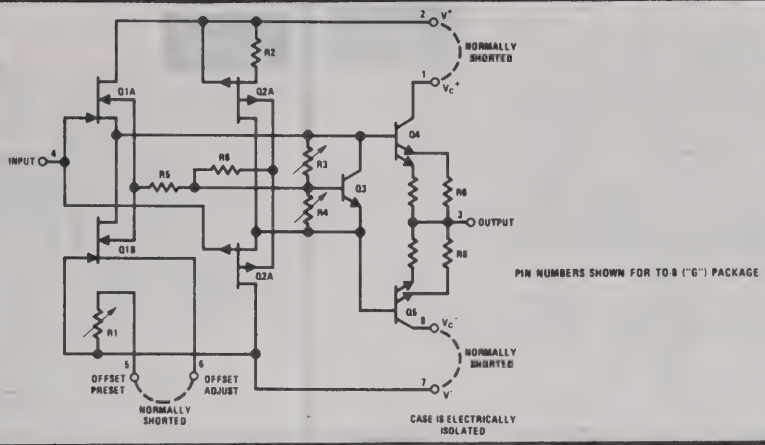
Z288



	PKG	IN	OFF ADJ	OFF PRE	VC +	VC −	V +	V −	OUT
Z288	CN	5	7	6	1	9	12	10	11
	MP	1	3	2	7	6	8	5	4

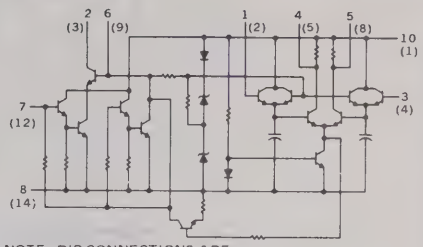
PIN NUMBERS SHOWN FOR TO-5 ("G") PACKAGE.

Z289



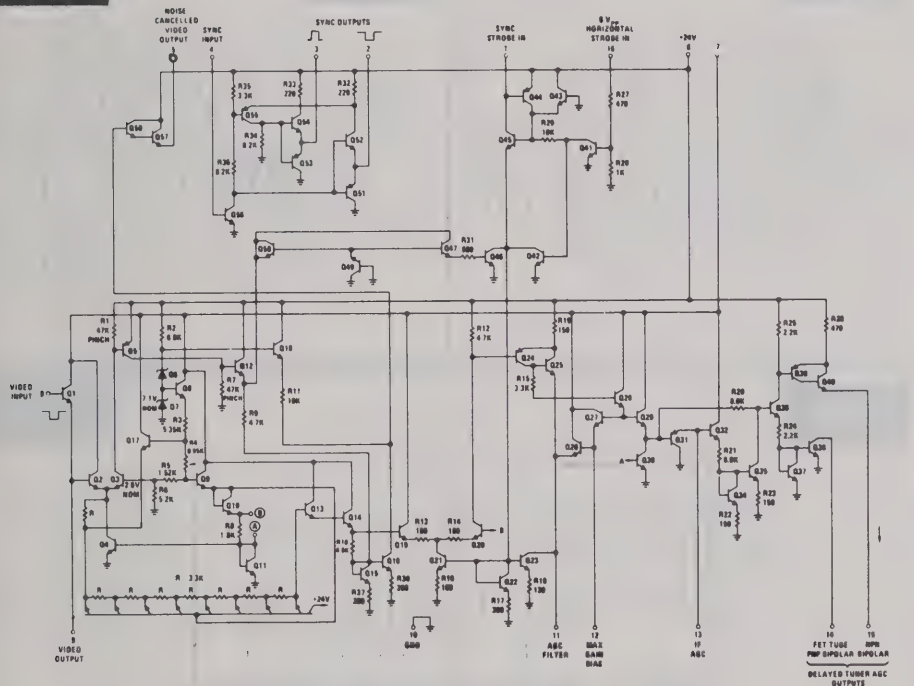
PIN NUMBERS SHOWN FOR TO-8 ("G") PACKAGE

Z290

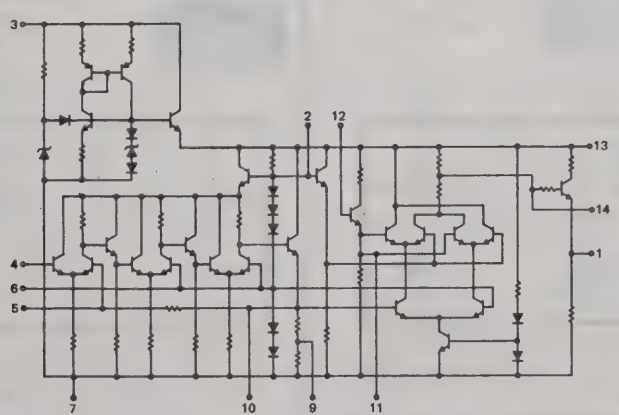


NOTE: DIP CONNECTIONS ARE INDICATED IN PARENTHESES.

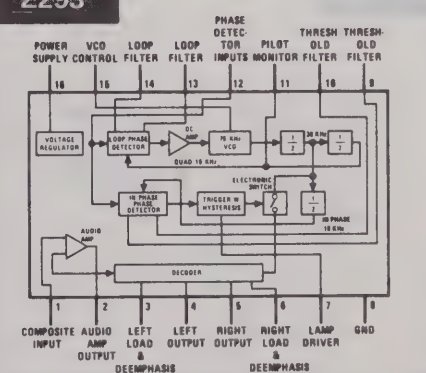
Z291



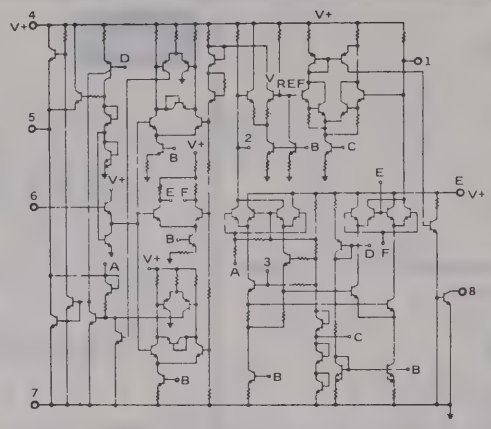
Z292



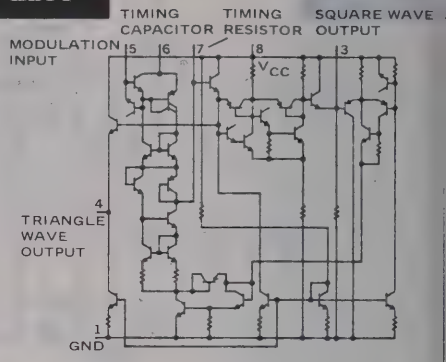
Z293



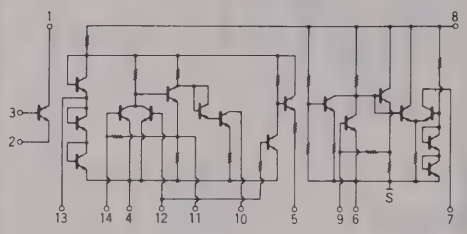
Z294



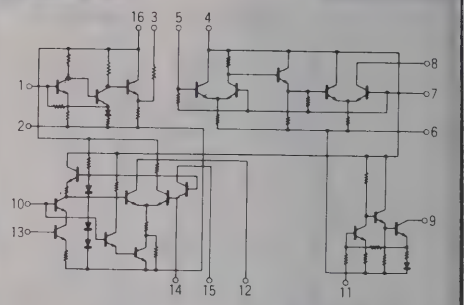
Z295



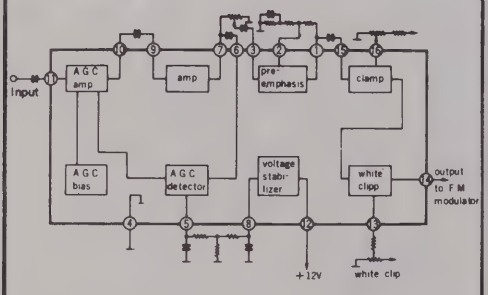
Z297



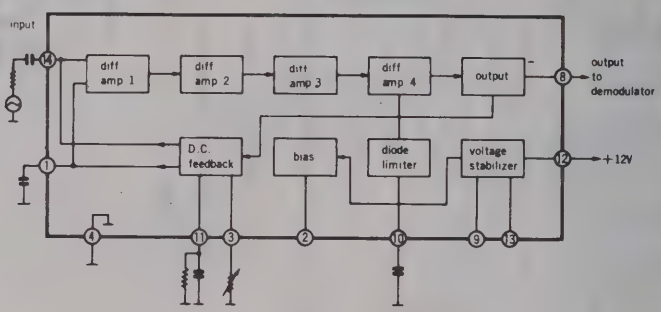
Z298



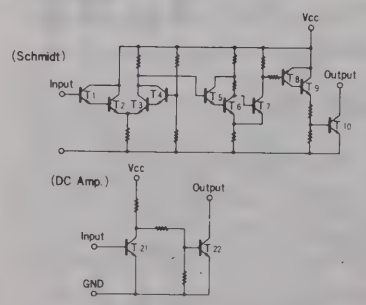
Z299



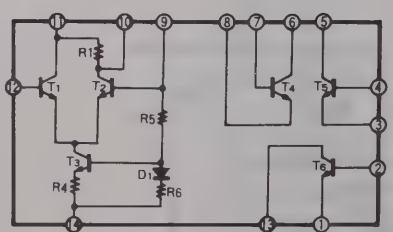
Z300



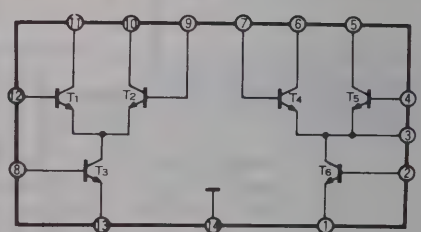
Z301



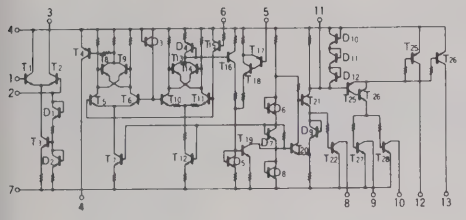
Z302



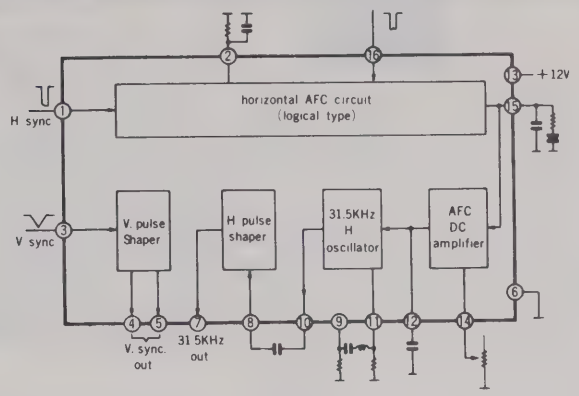
Z303



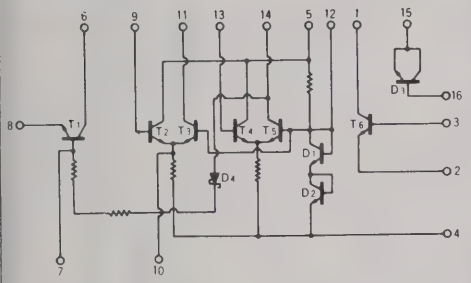
Z304



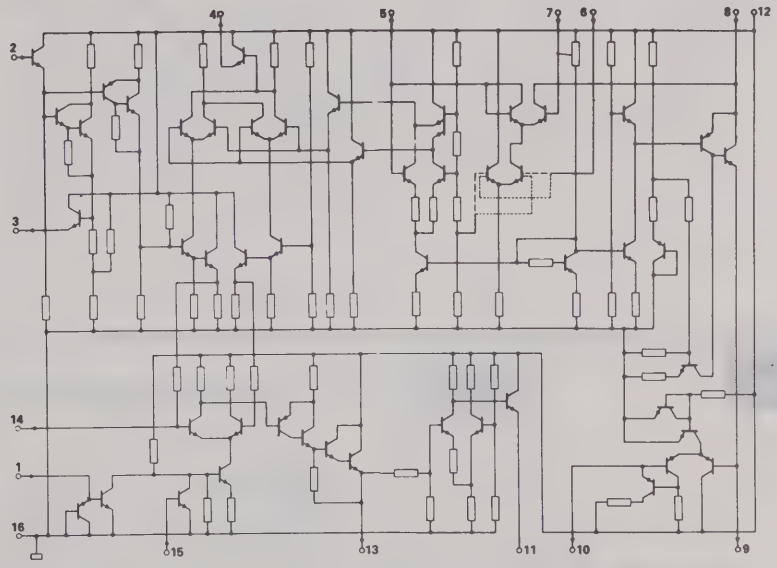
Z305



Z306

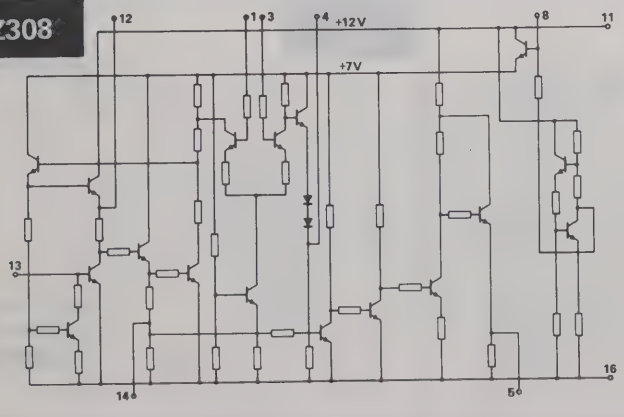


Z307

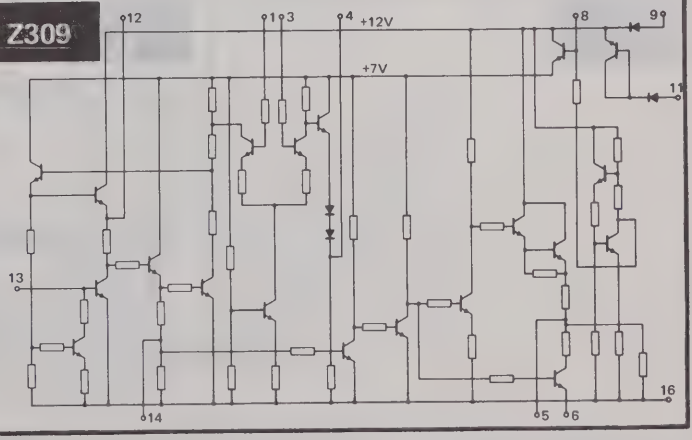


NOTE: Z307 – CONNECTIONS MADE VIA DOTTED LINES (.....)
Z307a – CONNECTIONS MADE VIA DASHED LINES (------)

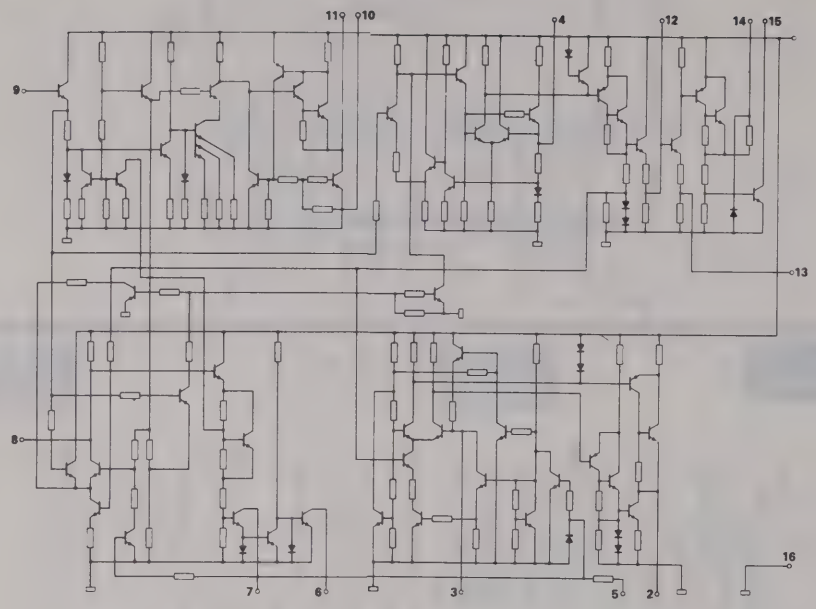
Z308



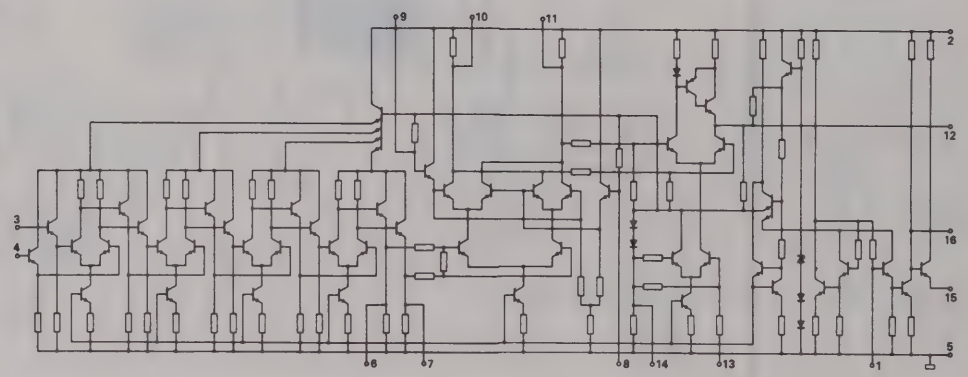
Z309



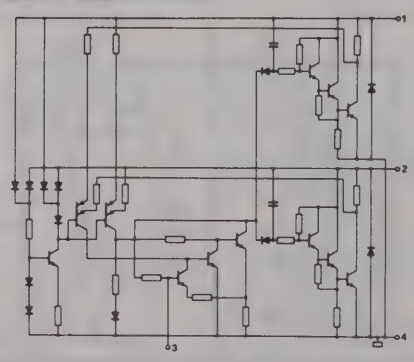
Z310



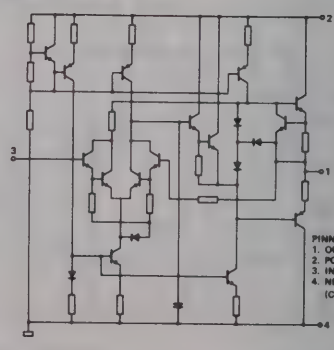
Z311



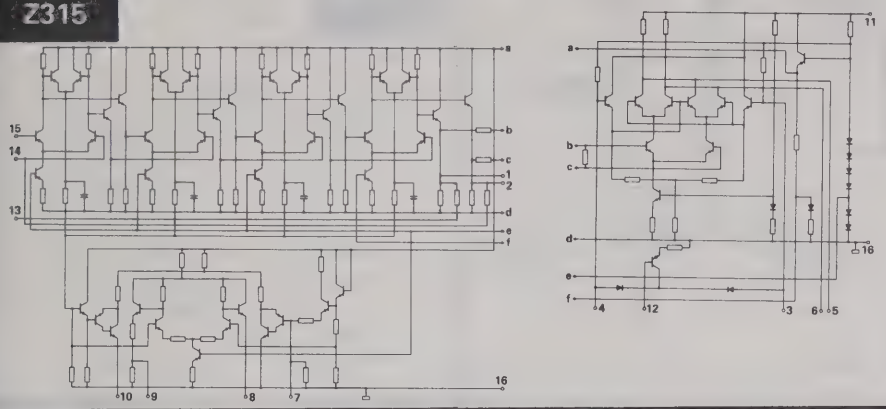
Z313



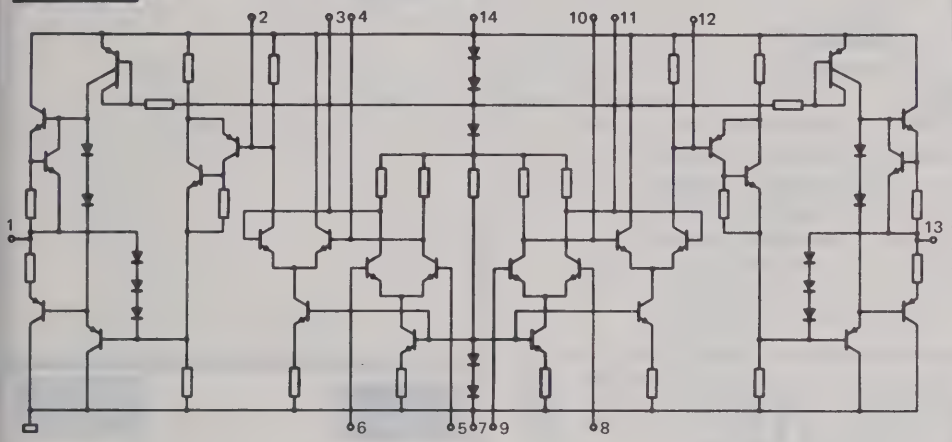
Z314

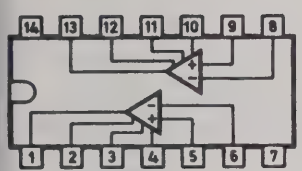


Z315



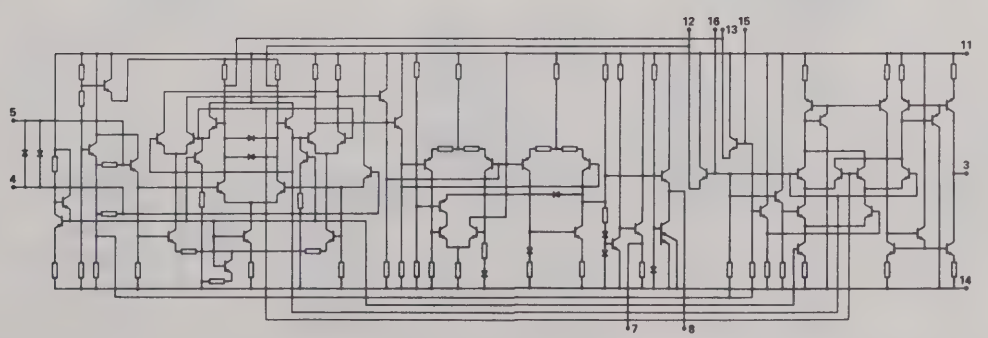
Z316



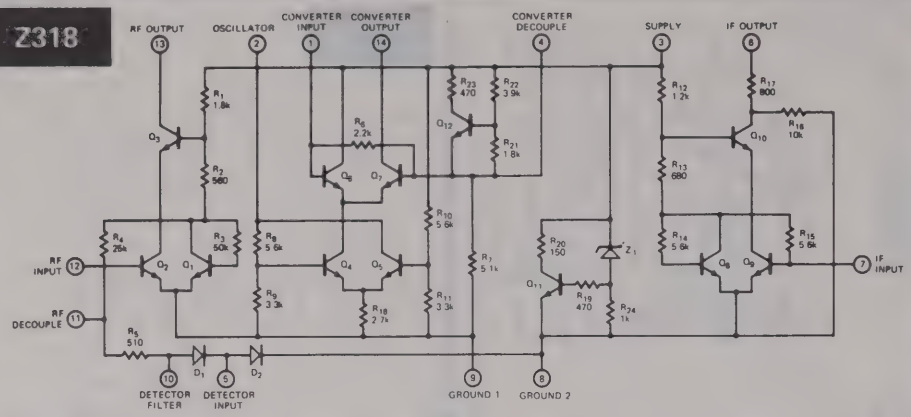


1. Output A
2. Lag output A
3. Lag input A
4. Lag input A
5. Non-inverting input A
6. Inverting input A
7. Negative supply (V_N)
8. Inverting input B
9. Non-inverting B
10. Lag input B
11. Lag input B
12. Lag output B
13. Output B
14. Positive supply (V_P)

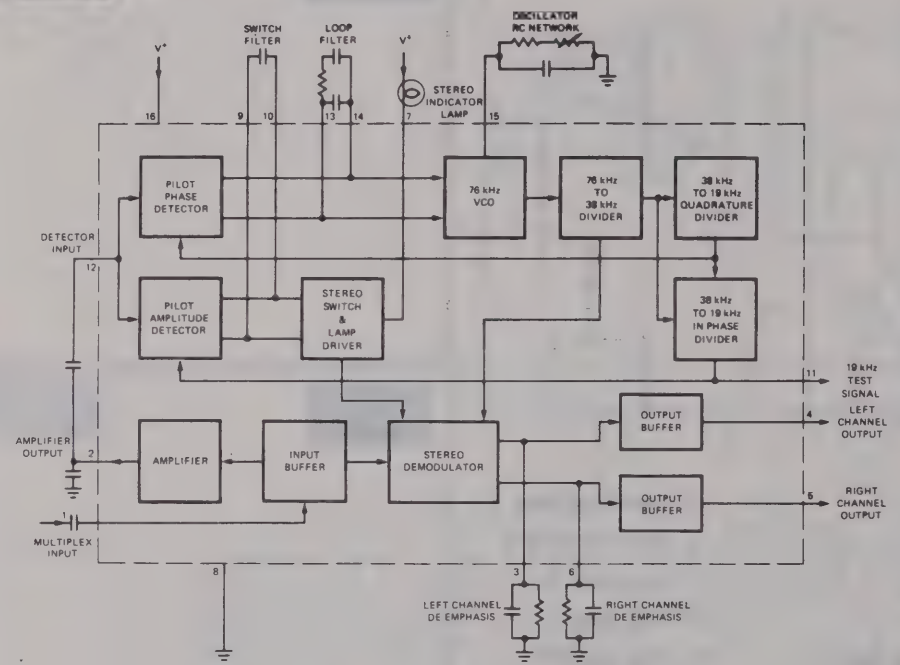
Z317



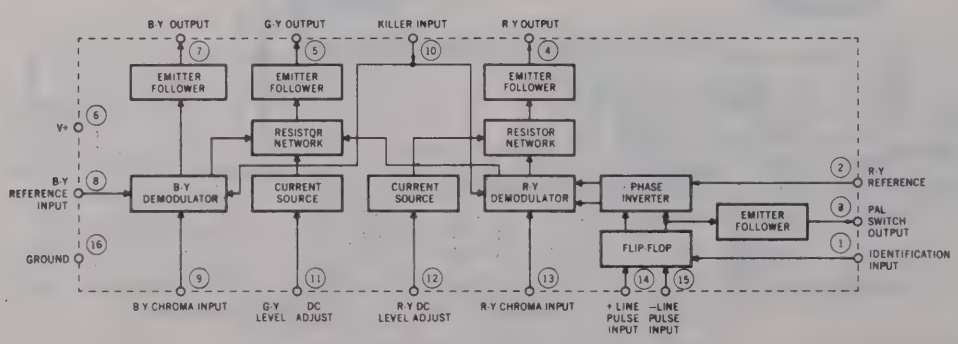
Z318



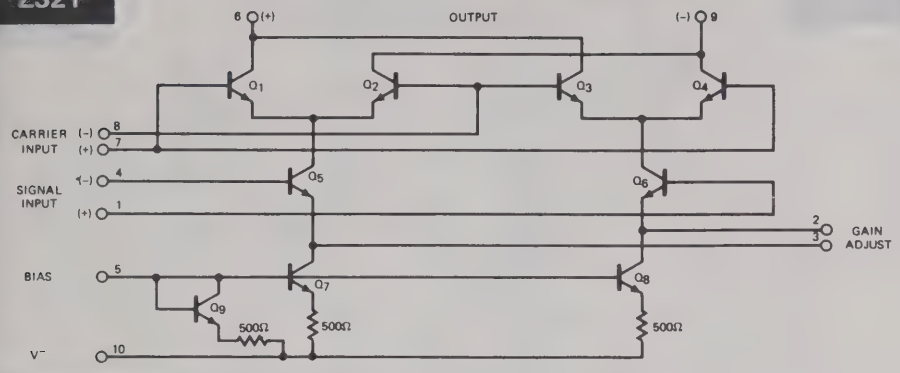
Z319



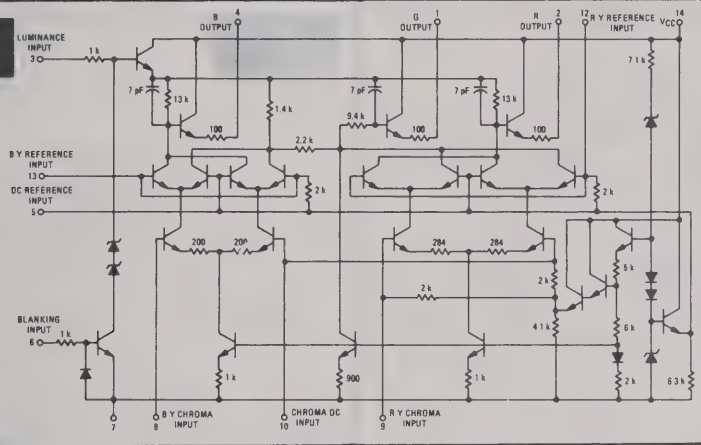
Z320



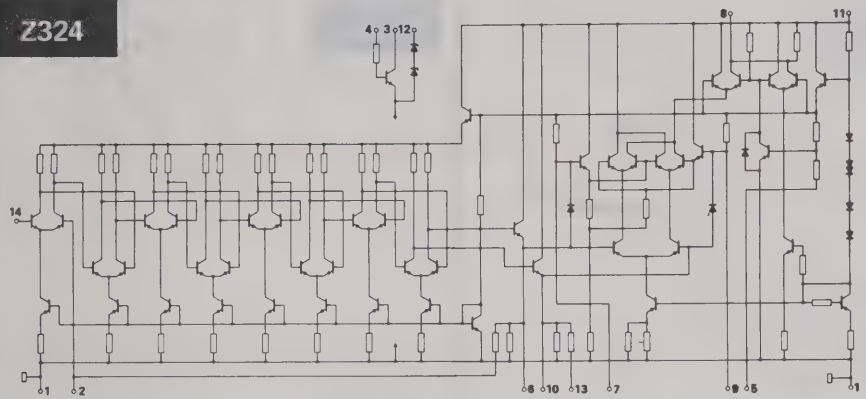
Z321



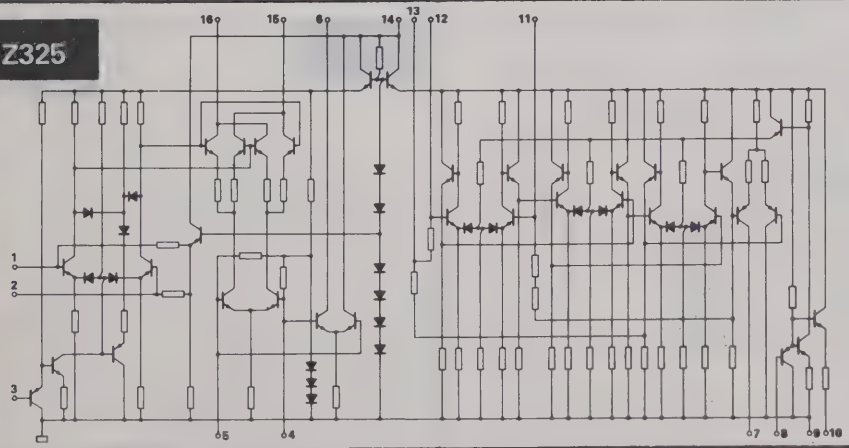
Z322



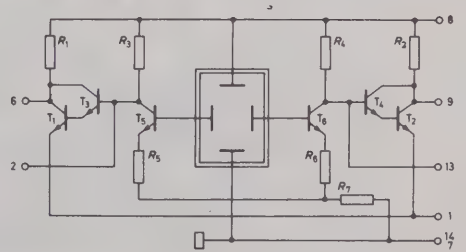
Z324



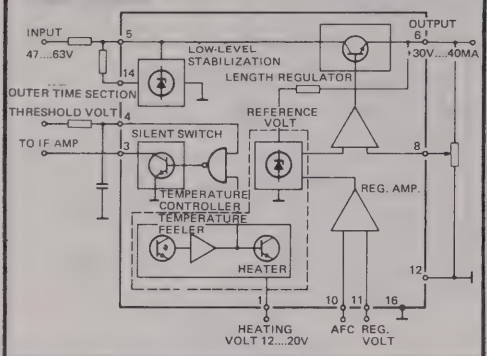
Z325



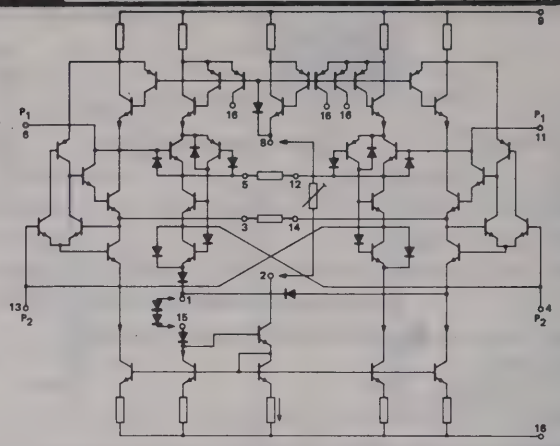
Z326



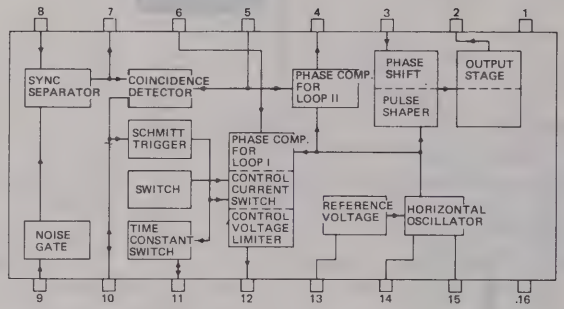
Z327



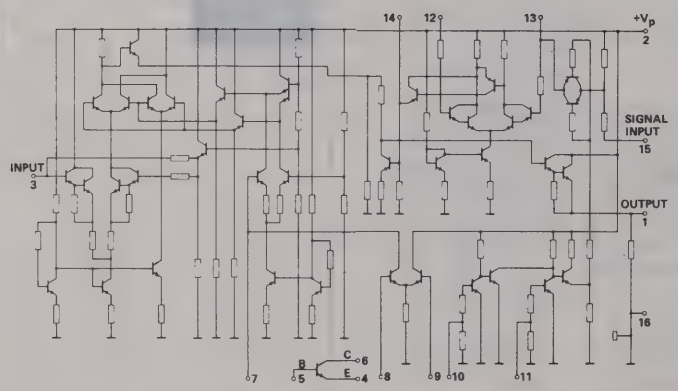
Z328



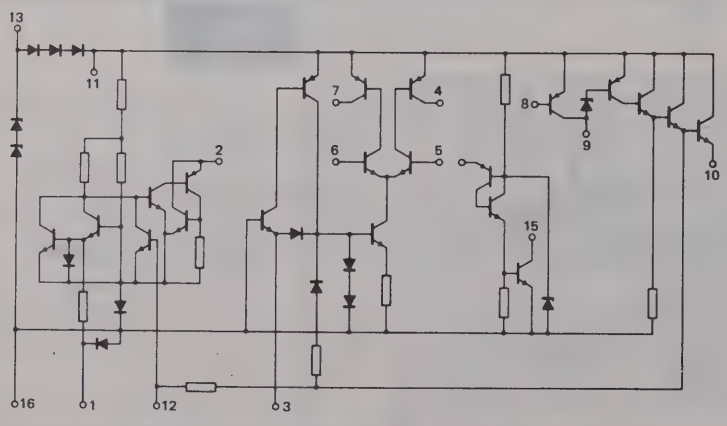
Z329



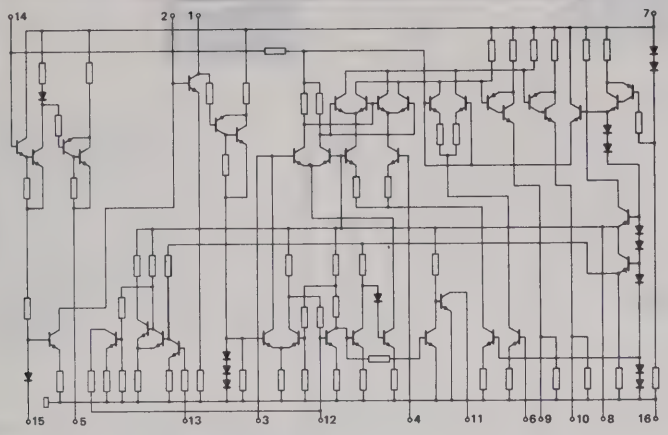
Z330



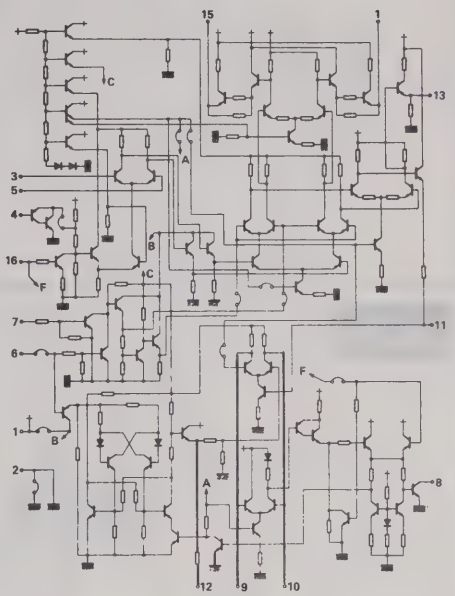
Z331



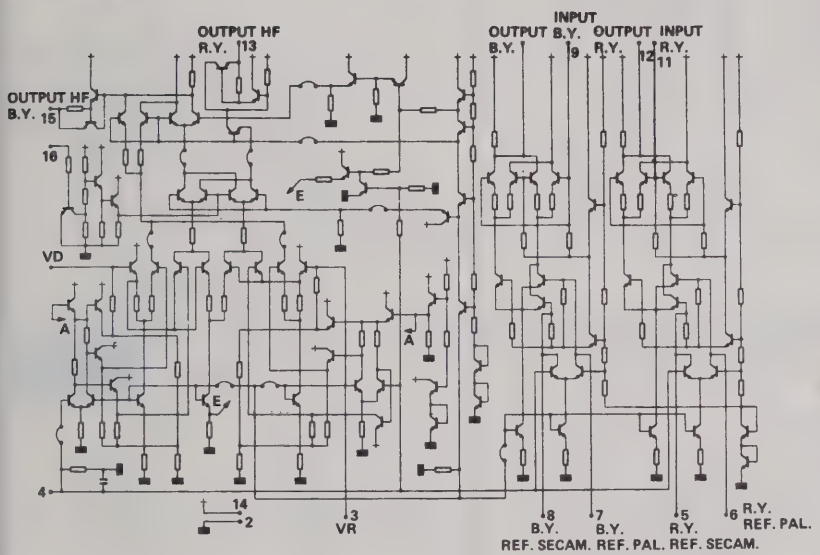
Z332



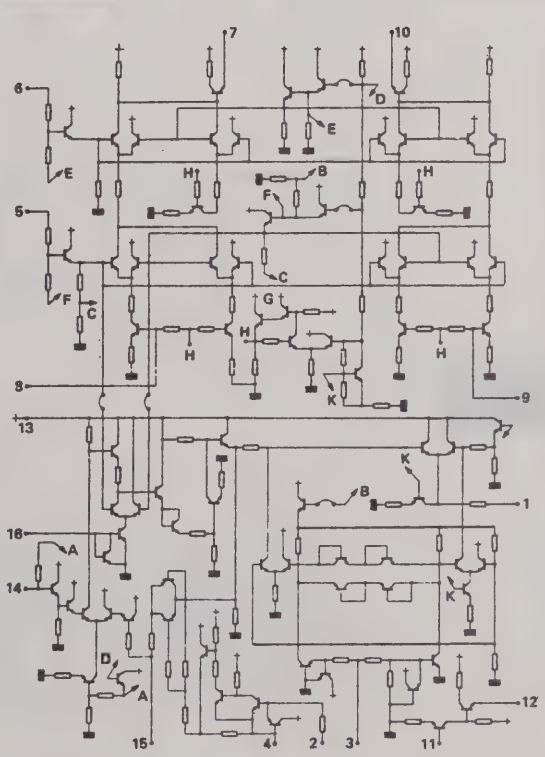
Z333



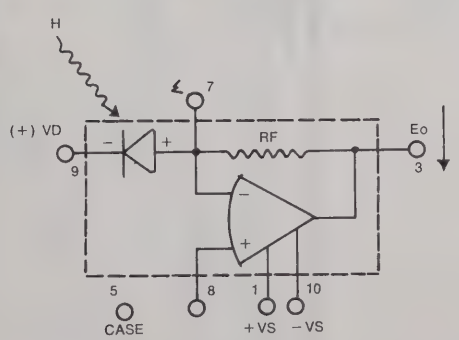
Z334



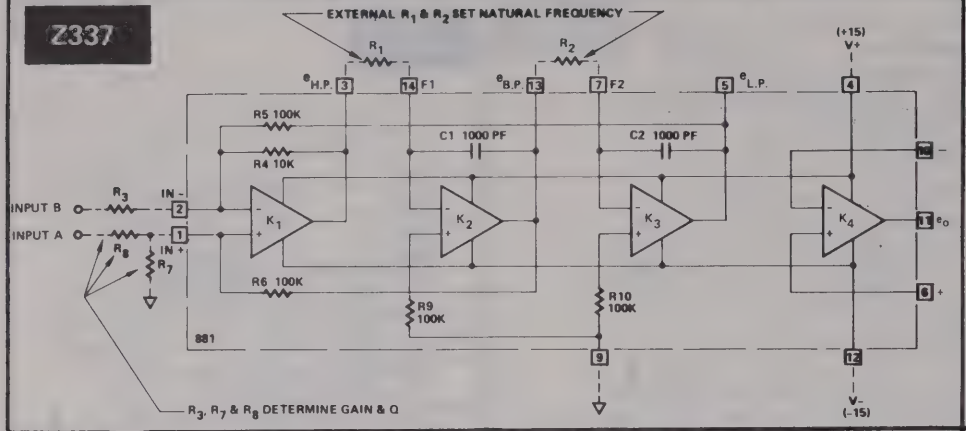
Z335



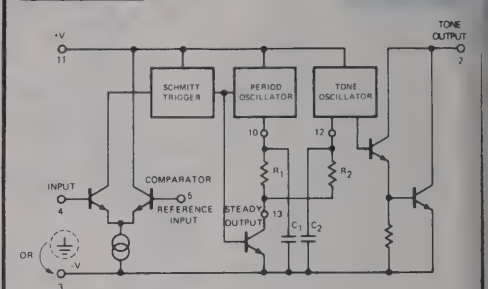
Z336



Z337



Z338



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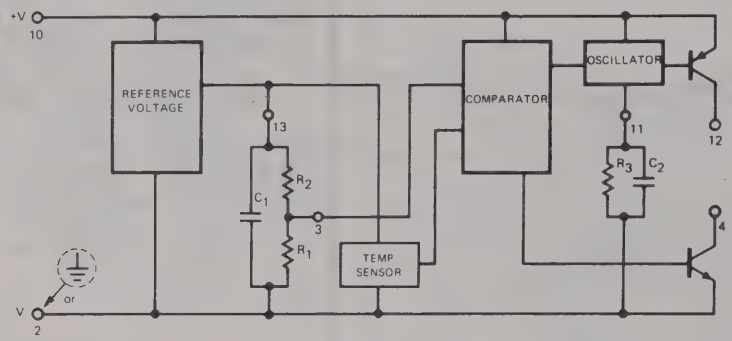

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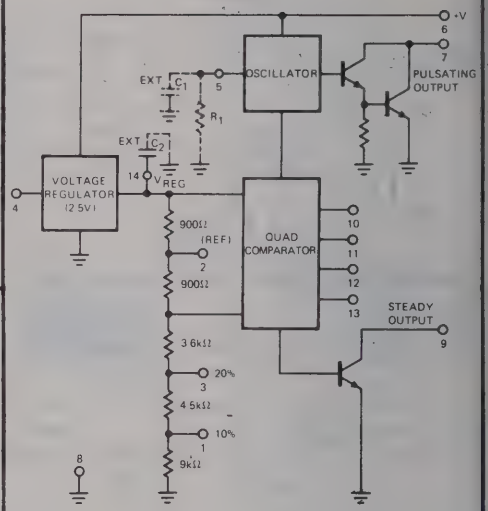

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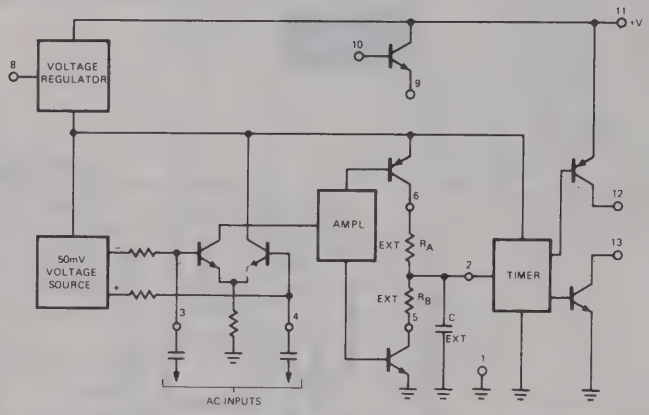
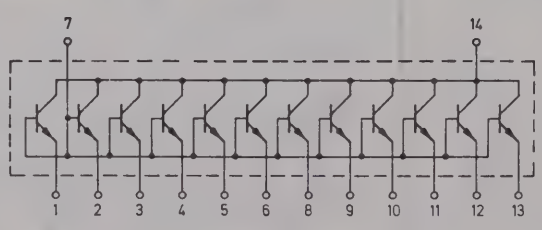
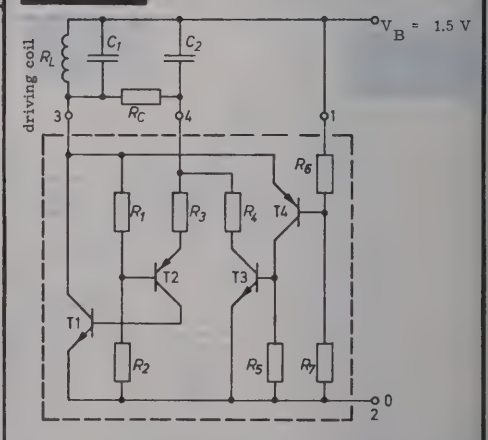


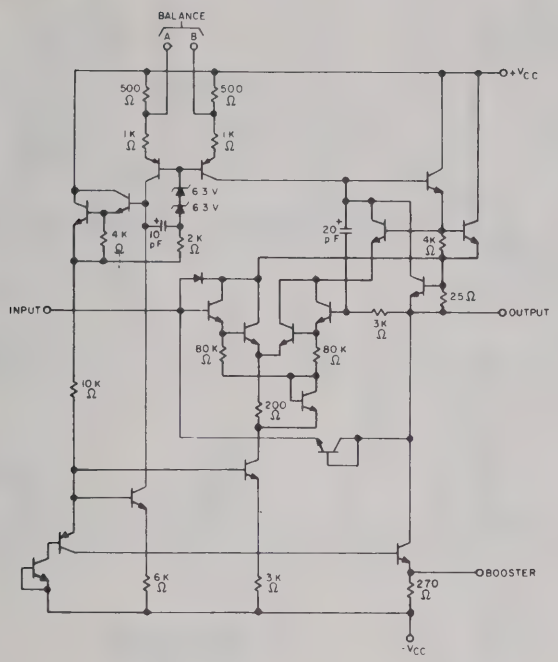
Z343



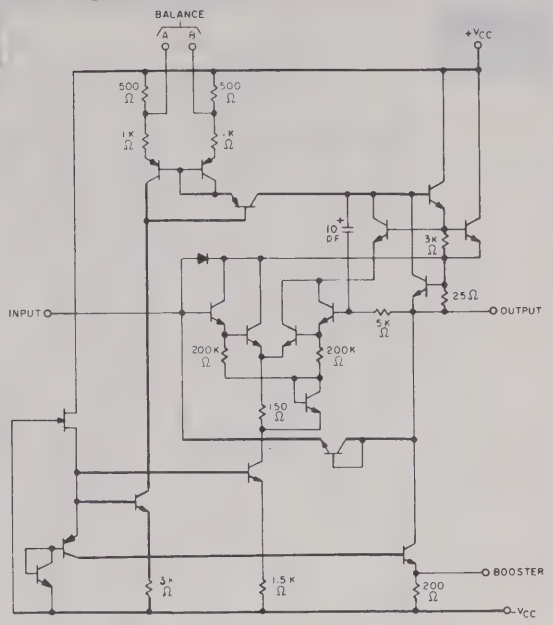
Z344



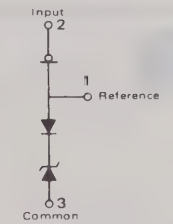
Z348



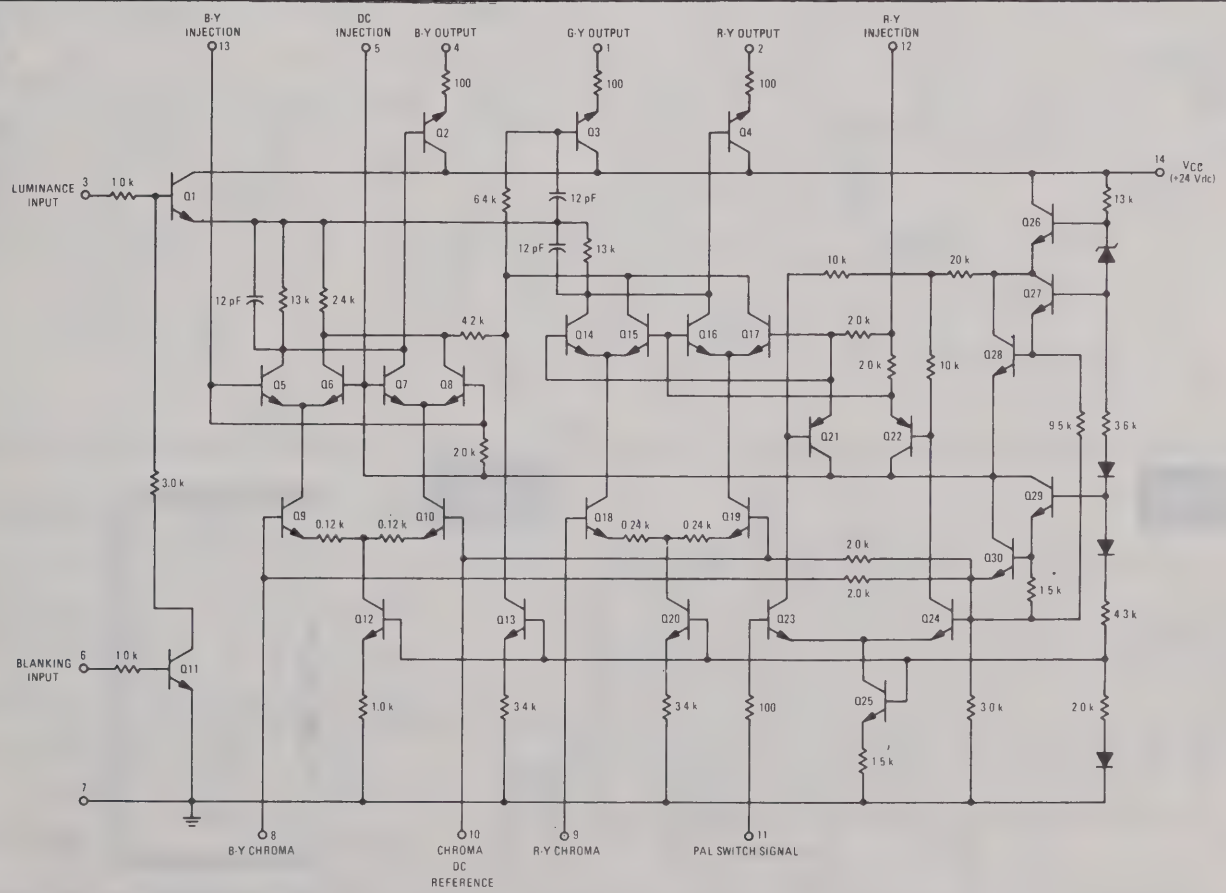
Z349



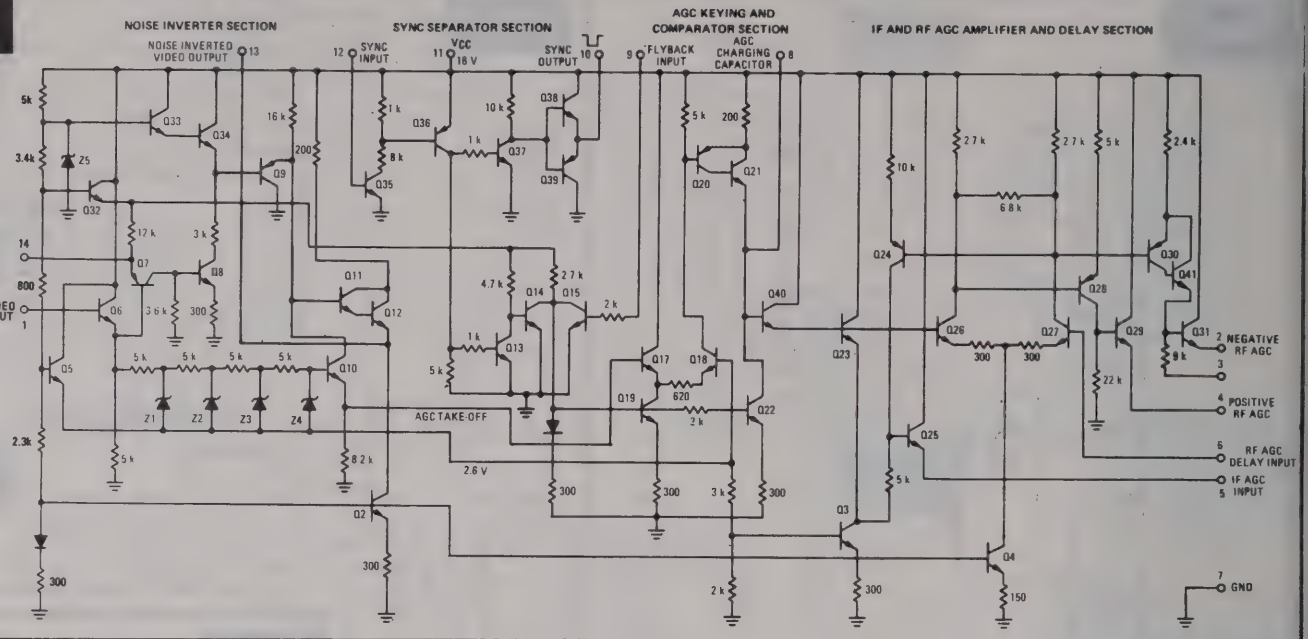
Z350



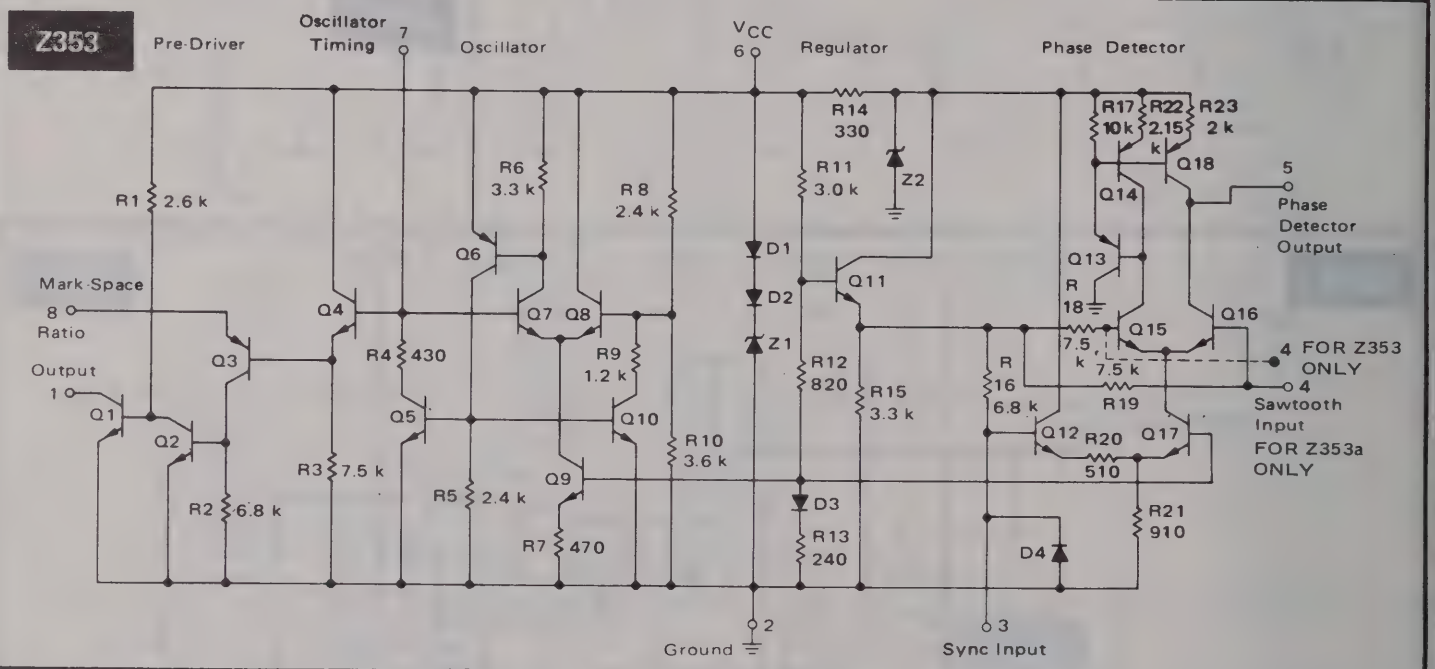
Z351



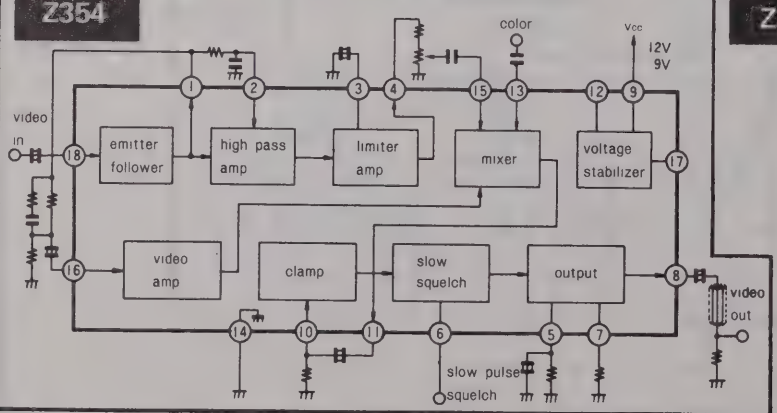
Z352



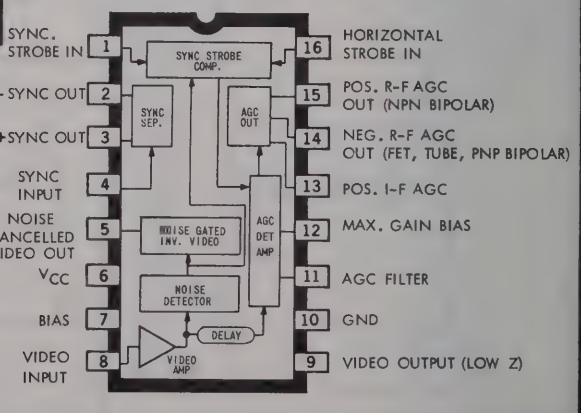
Z353



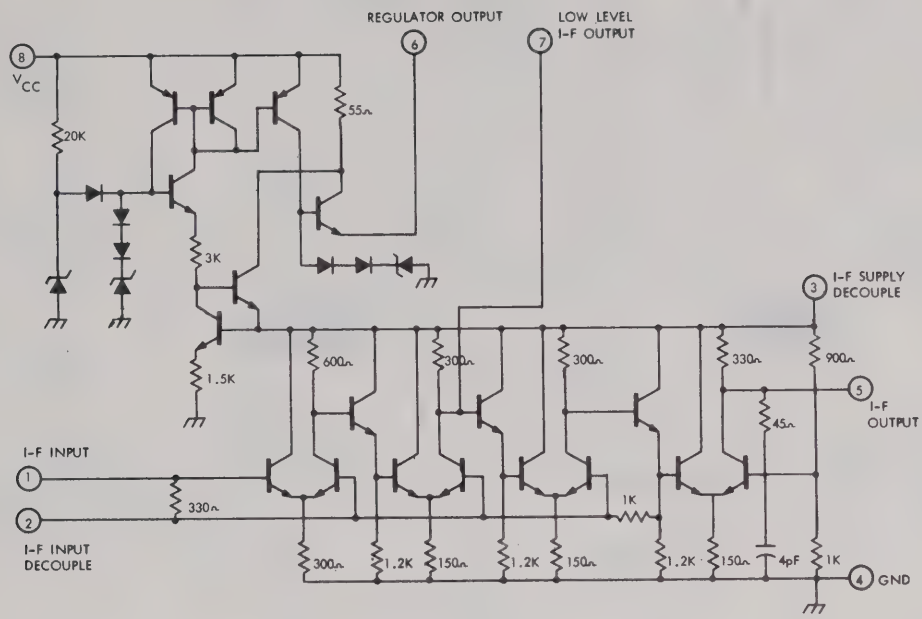
Z354



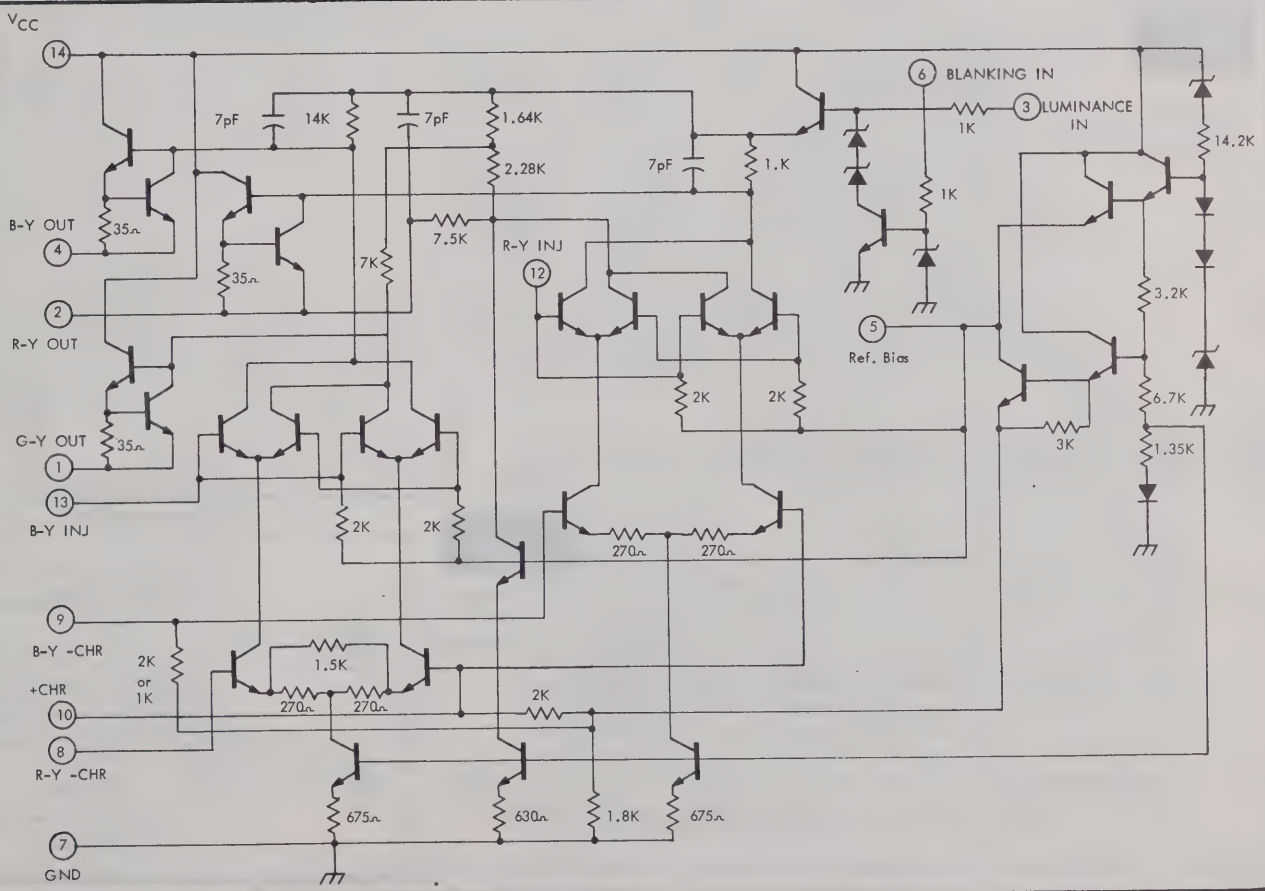
Z355



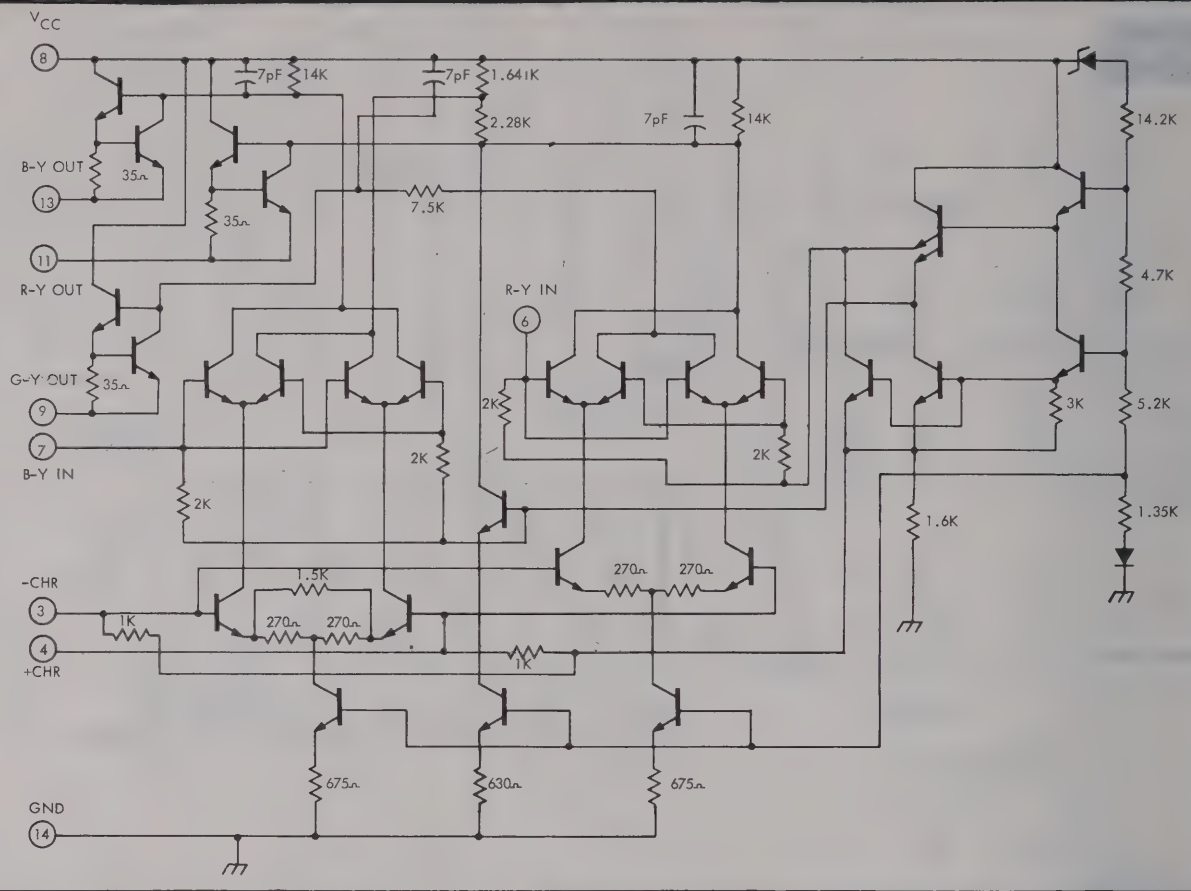
Z356


REGULATOR OUTPUT
6
LOW LEVEL I-F OUTPUT
7
8
V_{CC}
20K
55Ω
3K
1.5K
3
I-F SUPPLY DECOUPLE
600Ω
300Ω
300Ω
330Ω
900Ω
5
I-F OUTPUT
45Ω
I-F INPUT
1
330Ω
2
I-F INPUT DECOUPLE
1K
300Ω
1.2K
150Ω
1.2K
150Ω
1.2K
150Ω
4pF
1K
4
GND

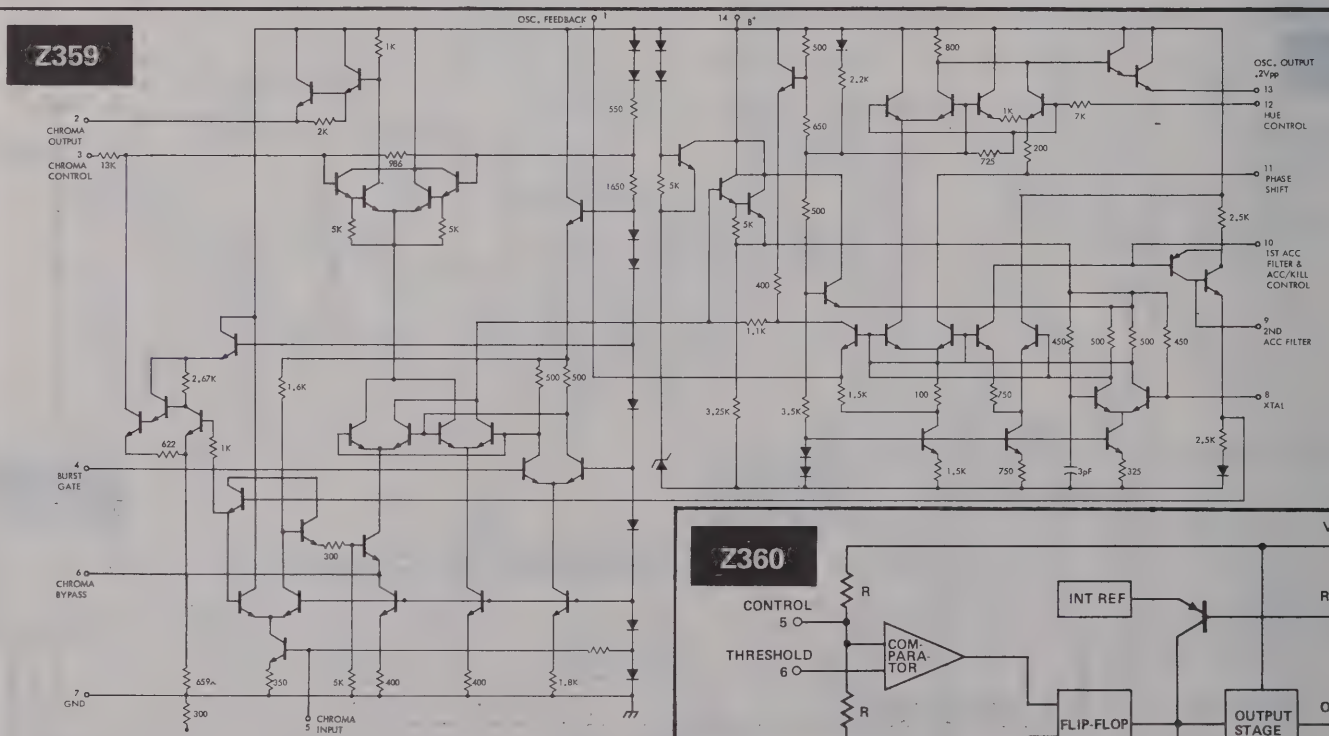
Z357


V_{CC}
14
7pF
14K
7pF
1.64K
2.28K
7pF
1.K
6
BLANKING IN
1K
3
LUMINANCE IN
14.2K
1K
B-Y OUT
4
35Ω
35Ω
7K
7.5K
R-Y INJ
12
3.2K
2
R-Y OUT
5
Ref. Bias
2K
2K
G-Y OUT
1
35Ω
6.7K
3K
1.35K
13
B-Y INJ
2K
2K
270Ω
270Ω
9
B-Y -CHR
2K
or
1K
1.5K
+CHR
10
270Ω
270Ω
2K
8
R-Y -CHR
675Ω
630Ω
1.8K
675Ω
7
GND

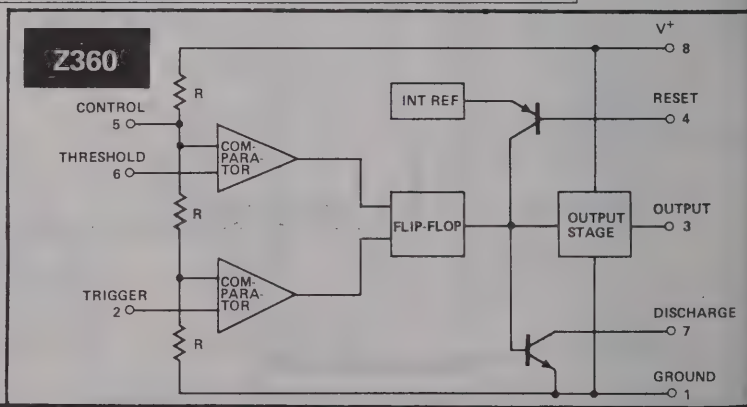
Z358



Z359



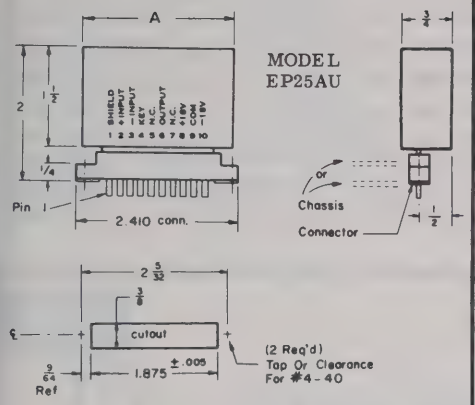
Z360



14. OUTLINE DRAWINGS

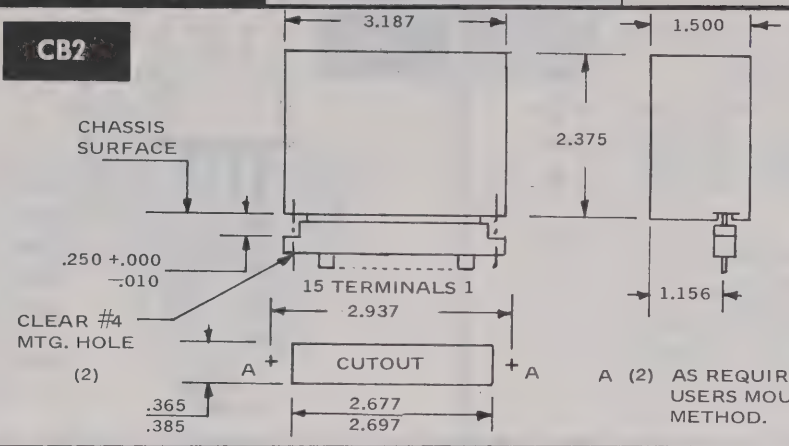
IN DRAWING NUMBER SEQUENCE

CB1

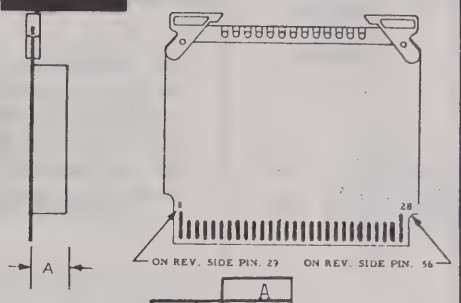


	A	Remarks
CB1	2.31	
CB1a	2.25	Pins 1,2,3,4,5,6,7,8 omitted

CB2

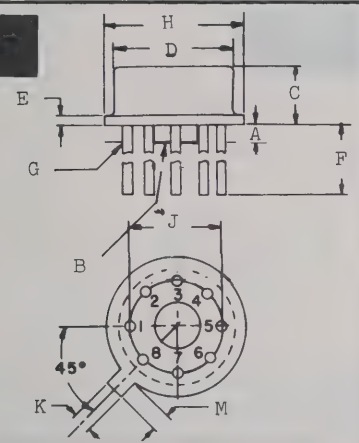


CB9



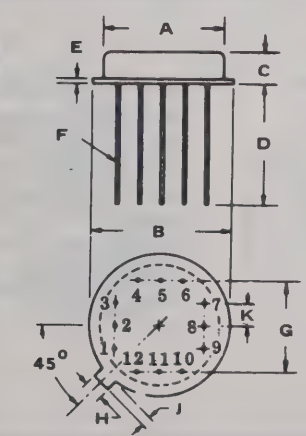
	A
CB9	.550
CB9a	.440 MAX

CN1



	A	B	C	D	E	F	G	H	J	K	M	REMARKS
CN1	.040	.160	.185	.335	.125	.500	.019	.370	.215	.034	.045	
CN1a	.050		.185	.335	.125	.500	.019	.370	.215	.034	.045	
CN1b	.040	.160	.182	.328		1.59	.019	.362	.200	.034	.045	
CN1c	.050		.185	.335	.040	.500	.019	.370	.200	.034	.045	
CN1d	.040 MAX		.165 .185	.305 .335	.040 MAX	.500 MIN	.016 .019	.335 .370	.200	.028 .034	.029 .045	
CN1e			.165 .185	.305 .335	.009 .125	.500 MIN	.016 .019	.335 .370	.200	.028 .034	.029 .045	OMIT PINS 2,6
CN1f	.040 MAX		.165 .185	.305 .335	.040 MAX	.500 MIN	.016 .019	.335 .370	.230	.028 .034	.029 .045	
CN1g	.015 .045		.165 .185	.315 .325	.020 .030	.500 .562	.016 .019	.355 .370	.190 .210	.028 .034	.029 .040	
CN1h	.040 MAX		.165 .185	.305 .335	.040 MAX	.500 MIN	.016 .019	.335 .370	.200	.028 .034	.029 .045	OMIT PINS 2,6
CN1j	.024 MAX		.150 .155	.322 .325	.024	.500 .559		.346 .350	.190 .210	.027 .034	.036	
CN1k	.010 .040		.165 .185	.305 .335	.040 MAX	.500 MIN	.016 .019	.335 .370	.200	.028 .034	.029 .045	
CN1m	.040 MAX	.160 MAX	.155 .165	.305 .335	.040 MAX	.500 MIN	.016 .019	.335 .370	.225 .235	.028 .034	.029 .045	
CN1n	NA	NA	.175 .194	.315 .325		.500 MIN	.019	.335 .370	.200	.031	.037	NO STANDOFF

CN2

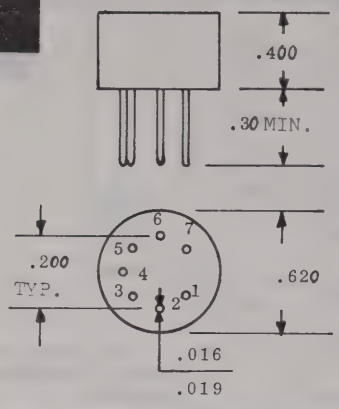


	A	B	C	D	E	F	G	H	J	K	NOTES
CN2	.500	.600	.140	.750	.023	.020	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2a	.450	.505	.150	.440		.019	.300 TYP	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2b		.500	.250	.500 MIN			.300	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2c	.550	.598 .602	.125 .150	.500 MIN		.017	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2d	.550 MAX	.605	.250 MAX	.562 MAX	.030	.015 .019	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2e	.535 .565	.585 .615	.170 MAX	.500 MIN	.035	.015 .019	.390 .410	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2f	.500	.595 .605	.135 .145	.450 MIN	.023	.019 MAX	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2g	.500	.595 .605	.270 MAX	.450 MIN	.023	.019 MAX	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2h	.535 .565	.585 .615	.175 MAX	.500 MIN	.026 MAX	.015 .019	.400 TP	.020 .040	.020 .040	.100	ALL PINS ON .100 GRID SPACING
CN2j	.550 MAX	.605 MAX	.175 MAX	.562 MAX	.030 MAX	.015 .017	.400	.040 MAX	.040 MAX	.100	ALL PINS ON .100 GRID SPACING
CN2k	.550 MAX	.605 MAX	.135 .145	.450 MIN	.023	.015 .019	.400	.040 MAX	.040 MAX		
CN2m	.550 MAX	.605 MAX	.250 MAX	.450 MIN	.023	.015 .019	.400	.040 MAX	.040 MAX		
CN2n	.450	.500	.220 MAX	.220 .280	.035 MAX	.016 .019	.300 TYP		.075 TYP		
CN2p	.550	.600	.150	.750 MIN	.023	.021	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING
CN2q	.550	.595 .605	.170 .180	.450 MIN	.023	.019 MAX	.400	.031	.031	.100	ALL PINS ON .100 GRID SPACING

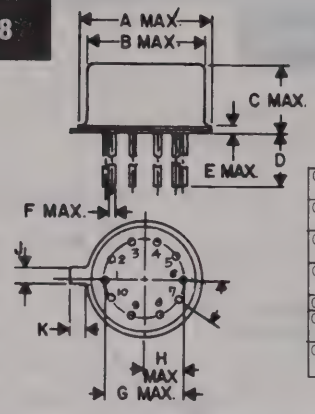
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

CN5

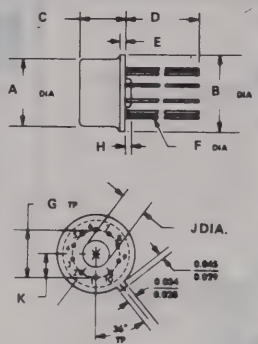


CN8



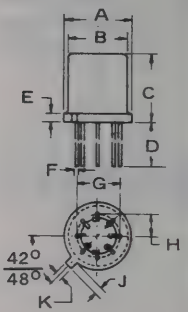
	A	B	C	D	E	F	G	H	J	K
CN8	.370	.329	.290	.500 MIN	.029		.235	.1175	.033 MAX	.040 MAX
CN8a	.370	.329	.260	.500 MIN	.029	.019	.235	.1175	.033 MAX	.040 MAX
CN8d	.370	.335	.180	.500 MIN	.125	.019	.230	.115	.034 MAX	.029 MIN
CN8e	.370	.335	.185	.300 TYP		.019	.230		.034 MAX	.034 MAX
CN8f	.370	.335	.250	.500		.018	.230 TYP	.115		
CN8g	.370	.335	.180	.750 MIN		.019	.230 TYP		.028 .034	.026 .034
CN8h	.370 MAX	.334 MAX	.183 MAX	.500 MIN		.014 MAX	.200		.033 MAX	.039 MAX

CN10



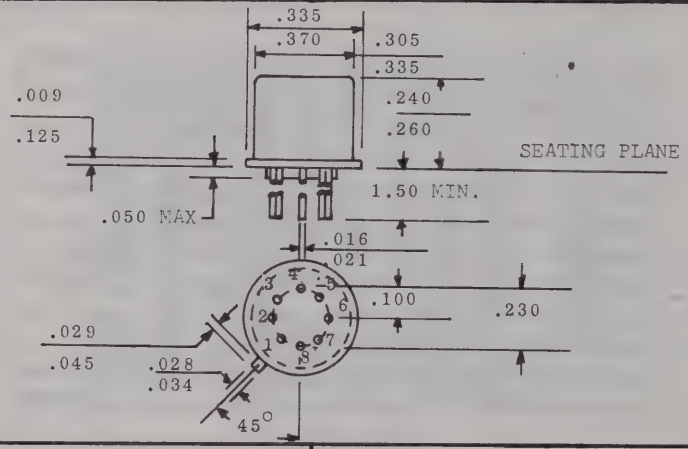
	A	B	C	D	E	F	G	H	J	K
CN10	.335	.370	.185	.500	.125	.021 .040	.240	.010 .040	.160	.115 TYP
CN10a	.335	.370	.180	.500	.125	.019	.230	.010 .040	.160	.115 TYP
CN10b	.305 .335	.335 .370	.180 MAX	.750 TYP		.016 .019	.230			
CN10c	.335	.370	.180	.750		.019	.230	.010 .040	.160	.115 TYP
CN10d	.335	.370	.180	.500		.020	.230			
CN10e	.305 .335	.335 .370	.165 .185	.500 .750	.040 MAX	.016 .019	.230	.010 .045	.120 .160	.115
CN10f	.305 .335	.335 .370	.240 .260	.500 MIN	.040 MAX	.016 .019	.230	.040 MAX		.115
CN10g	.315 .325	.355 .370	.240 .260	.750 MIN	.020 .030	.016 .019	.220 .240	.015 .045	.120 .160	
CN10h	.315 .325	.355 .370	.165 .185	.750 .810	.020 .030	.016 .019	.220 .240	.015 .045	.120 .160	
CN10j	.305 .335	.335 .370	.180 MAX	.750 TYP	.040	.016 .019	.230 TYP			
CN10k	.305 .335	.335 .370	.240 .260	.500 MIN	.040 MAX	.016 .019	.230	.040 MAX	.140 .160	
CN10m	.305 .335	.335 .370	.180 MAX	.500 MIN	.040 MAX	.016 .019	.230 T.P.	NA	NA	.115 T.P.
CN10n	.305 .335	.335 .370	.165 .185	.500 .562	.020 .040	.016 .019	.230			

CN11

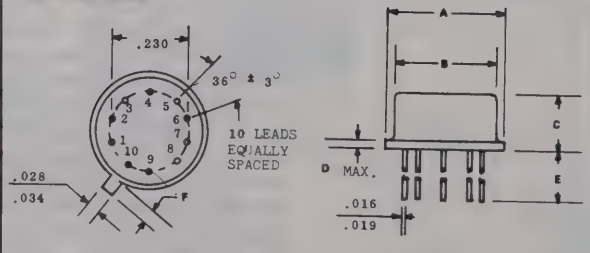


	A	B	C	D	E	F	G	H	J	K
CN11	.365	.330	.255	1.51 MIN	.035 MAX	.019	.210	.095 .105	.029 .035	.028 .034
CN11a	.370		.180	.500 MIN		.021	.200	.095 .105	.029 .035	.028 .034
CN11b	.370	.335	.182	.500 MIN	.080 MAX	.019	.210	.095 .105	.029 .035	.028 .034
CN11c	.370	.329	.165	.495 MIN	.029 MAX	.019	.235	.095 .105	.029 .035	.028 .034
CN11d	.360	.300	.280	.530 MIN	.030 MAX	.017	.200	.095 .105	.029 .035	.028 .034
CN11e	.340 .370	.318 .328	.165 .185	.500 .560	.010 .040	.016 .021	.190 .210		.028 .033	.029 .033

CN14

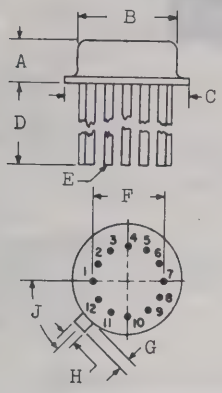


CN17



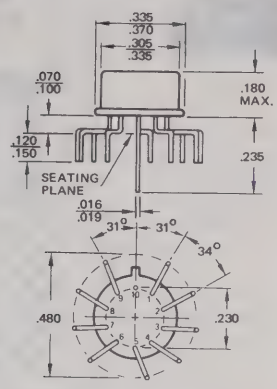
	A	B	C	D	E	F
CN17	.335 .370	.305 .333	.265	.040	.500	.029 .045
CN17a	.290 .370	.290 .335	.140 .180	.009 .125	.500	.029 .045
CN17b	.335 .370	.305 .335	.180 MAX		.750	.026 .034
CN17c	.335 .370	.305 .335	.185	.009 .125	.300 MIN	.029 .045
CN17d	.335 .370	.305 .335	.260	.009 .125	.500 MIN	.029 .045
CN17e	.370 MAX		.260 MAX		1.00 MIN	.029 .045
CN17f	.335 .370	.305 .335	.180 MAX		.335 .370	.024 .045
CN17g	.335 .370	.319 .329	.260 .290	.022 .029	.500	.030 .040
CN17h	.335 .370	.305 .335	.180 MAX		.500 MIN	.024 .045

CN18

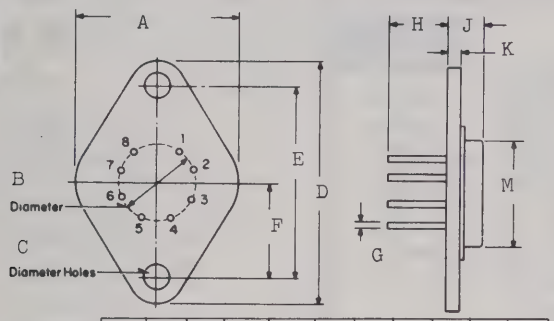


	A	B	C	D	E	F	G	H	J
CN18	.180 MAX	.305 .335	.335 .370	.500 MIN	.016 .020	.215 .245	.024 .045	.028 .034	30°
CN18a	.220 MAX	.305 .335	.335 .370	.500 MIN	.016 .020	.215 .245	.024 .045	.028 .034	
CN18b	.160 .180		.357 .370	.500 .560	.016 .021	.200			
CN18c	.150 .175	.545 .555	.597 .603	.500 .560	.016 .019	.400	.026 .036	.026 .036	45°

CN19

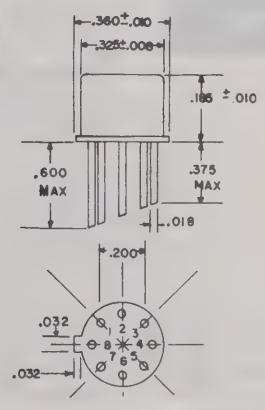


CN22

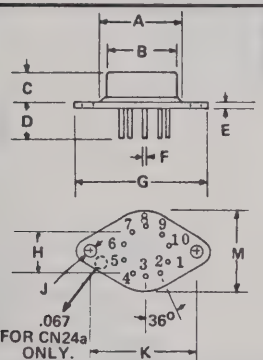


	A	B	C	D	E	F	G	H	J	K	M
CN22	1.01	.500	.156	1.54	1.18	.593	.040	.220 .280	.240	.085 .100	.100
CN22b	1.000	.500	.156	1.540	1.185			.400	.400	.080	.745
CN22c	1.000	.500		1.550 MAX	1.187		.042	.220 .280	.350 MAX	.085 .100	.780 MAX
CN22d		.495 .505	.166 .176		1.18 1.19		.040	.220 .280	.355 .395	.085 .100	.875 MAX

CN23

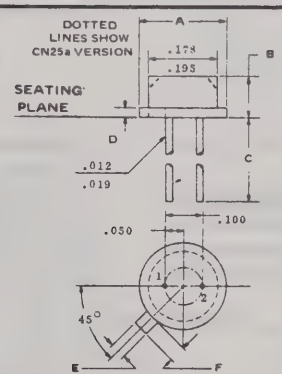


CN24



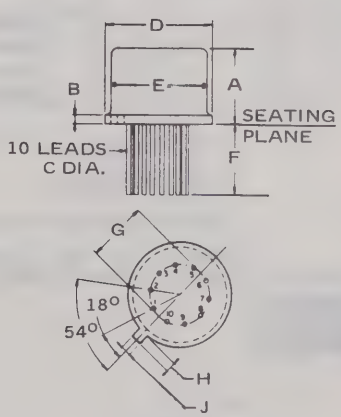
	A	B	C	D	E	F	G	H	J	K	M
CN24	.846 MAX	.780 MAX	.335	.252	.087	.039	1.57	.500	.157	1.20	1.01
CN24a		.811	.236	.335	.079	.039	1.55	.500		1.18	1.03
CN24b		.850 .910	.265 .350	.260 MIN	.085 .100	.025 .035		.500	.154 .159	1.177 1.197	.990 1.010

CN25



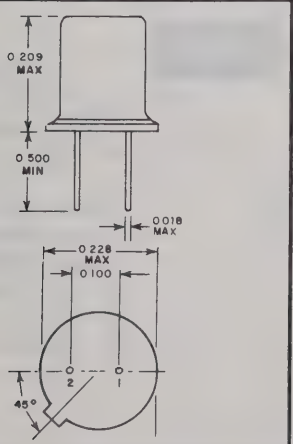
	A	B	C	D	E	F
CN25	.209 .230	.090	.500 MIN	.040 MAX	.036 .046	.028 .048
CN25a	.224	.208	.511			

CN27

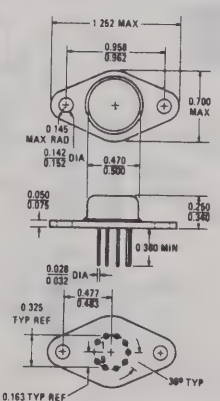


	A	B	C	D	E	F	G	H	J
CN27	.210 MAX	.009 .125	.016 .021	.370 MAX	.335 MAX	.500 MIN	.200	.029 .045	.028 .034
CN27a	.165 .185	.010 .080	.016 .019	.370 MAX	.336 MAX	.500 MIN	.200	.029 .045	.028 .034
CN27b	.165 .185	.010 .040	.016 .021	.340 .370	.318 .328	.500 .560	.190 .210	.029 .033	.028 .034

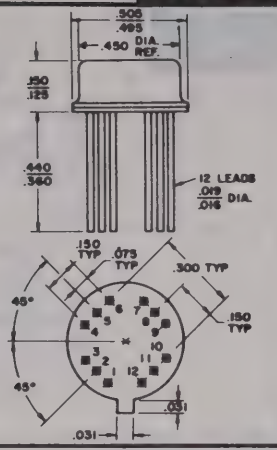
CN28



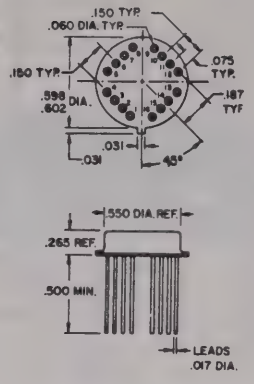
CN30



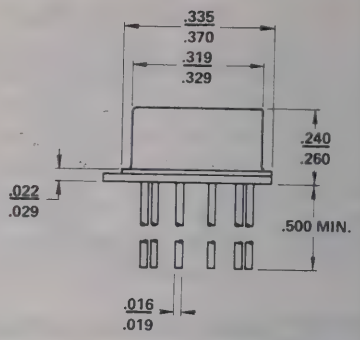
CN34



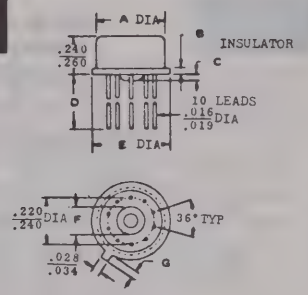
CN35



CN36

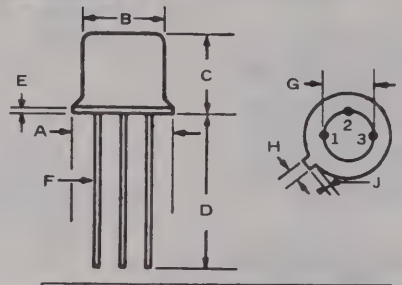


CN37

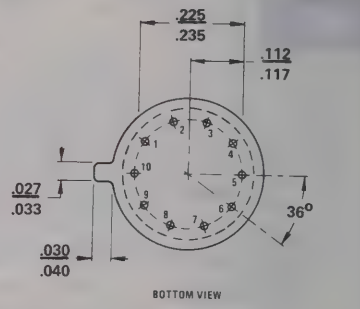


	A	B	C	D	E	F	G
CN37	.315	.020	.015	.750	.355	.120	.030
	.325	.030	.045	MIN	.370	.160	.040
CN37a	.305	.040	.040	.500	.335	.115	.029
	.339	MAX	MAX	MIN	.370		.045

CN38

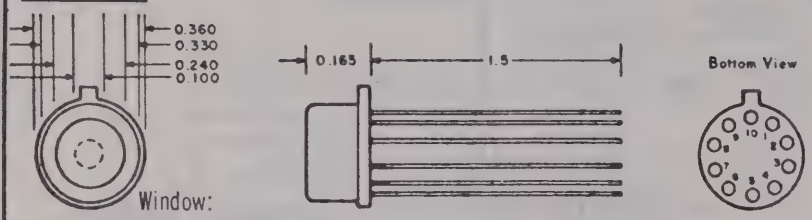


	A	B	C	D	E	F	G	H	J
CN38	.362	.327	.259	.750		.016	.200	.034	
	MAX	MAX	MAX	MIN		.019	TYP	MAX	
CN38a	.335	.305	.165	.500	.060	.016	.200	.028	.029
	.370	.335	.185	MIN	MAX	.019		.034	.045



CN39

Lead radius - 0.100 inches



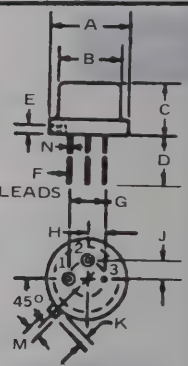
Window:

0.240 inch diameter, 0.050 inch thick.
Corning 7052 glass.
Distance, outer window to active surface - 0.115 inch nominal

Active Photodiode:

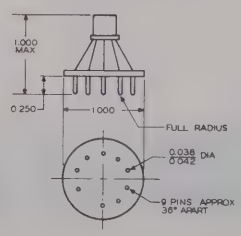
Diameter - 0.100 inch
Area 0.051 cm^2

CN40

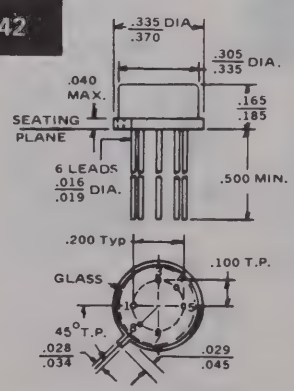


	A	B	C	D	E	F	G	H	I	K	M	N
CN40	.335	.305	.165	.500	.040	.016	.200	.100	.100	.029	.028	.016
	.370	.335	.185	MIN	MAX	.019				.045	.034	.019
CN40a	.335	.305	.240	.500	.009	.016	.200	.100		.029	.028	.016
	.370	.335	.260	MIN	.041	.021				.045	.034	.019

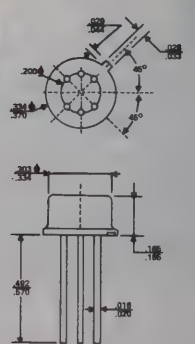
CN41



CN42



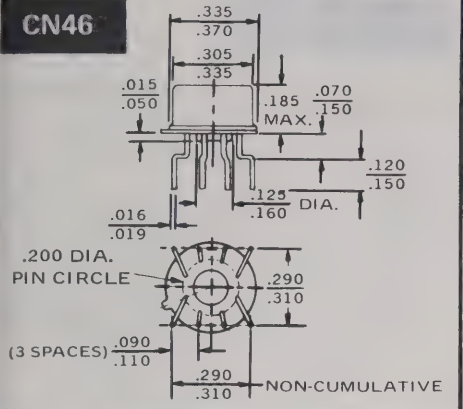
CN44



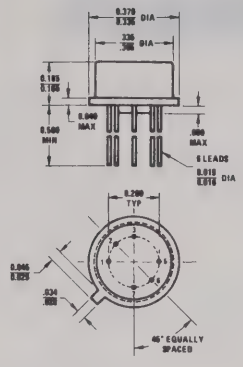
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

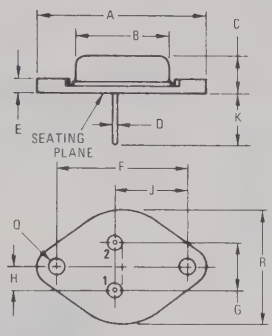
CN46



CN47



CN48

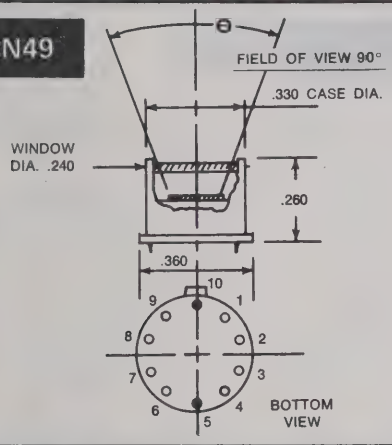


LEAD CONFIGURATION
PIN 1. INPUT
2. OUTPUT
CASE GROUND

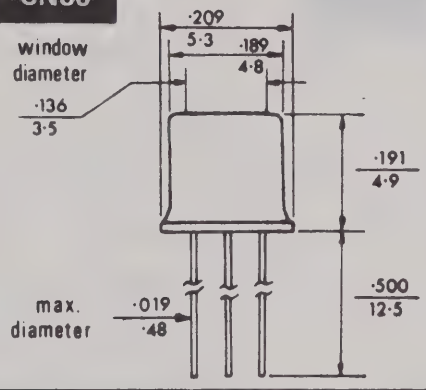
NOTE
1. DIM "Q" IS DIA

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	–	39.37	–	1.550
B	–	21.08	–	0.830
C	6.35	7.62	0.250	0.300
D	0.99	1.09	0.039	0.043
E	–	3.43	–	0.135
F	29.90	30.40	1.177	1.197
G	10.67	11.18	0.420	0.440
H	5.33	5.59	0.210	0.220
J	16.64	17.15	0.655	0.675
K	11.18	12.19	0.440	0.480
Q	3.84	4.09	0.151	0.161
R	–	26.67	–	1.050

CN49



CN50



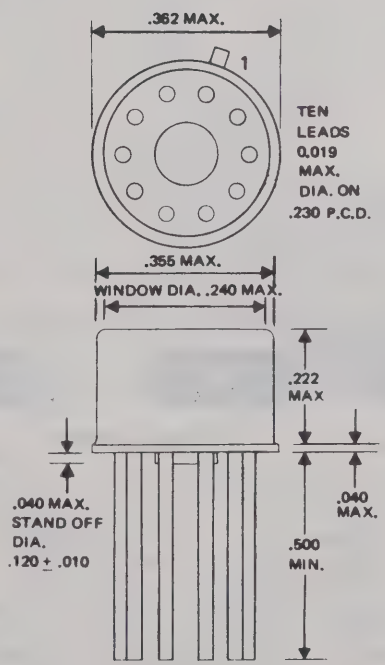
CN51

DEVICE ACTIVE AREA IS TYPICALLY 0.106 in. / 2.7 mm BELOW TOP OF LID.

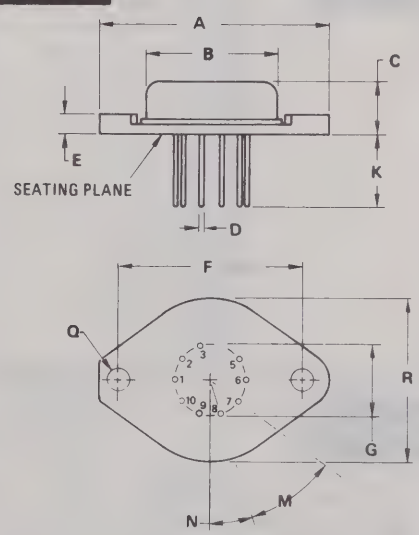
PIN CONNECTIONS

1	(TAG) FEEDBACK
2	N.C.
3	N.C.
4	N.C.
5	N.C.
6	GROUND (CAN)
7	N.C.
8	POSITIVE SUPPLY
9	OUTPUT
10	NEGATIVE SUPPLY

NUMBERING CLOCKWISE WHEN VIEWED FROM BELOW

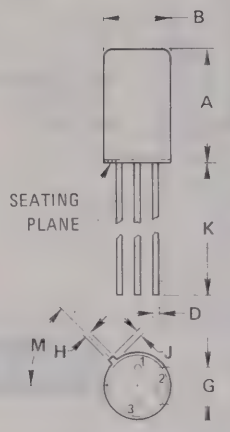


CN53



DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	–	38.61	–	1.520
B	–	21.03	–	0.830
C	6.35	8.13	0.250	0.320
D	0.97	1.09	0.038	0.043
E	–	3.43	–	0.135
F	29.90	30.40	1.177	1.197
G	11.94 BSC		0.470 BSC	
K	7.11	8.13	0.280	0.320
M	36° BSC		36° BSC	
N	18° BSC		18° BSC	
Q	3.84	4.09	0.151	0.161
R	–	26.67	–	1.050

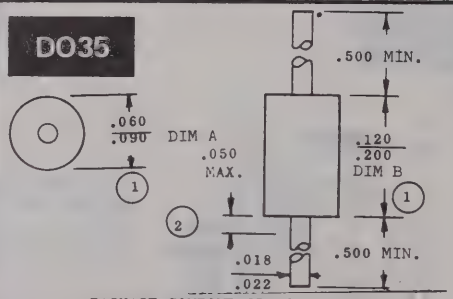
CN54



STYLE 1:
PIN 1. REFERENCE
2. INPUT
3. COMMON

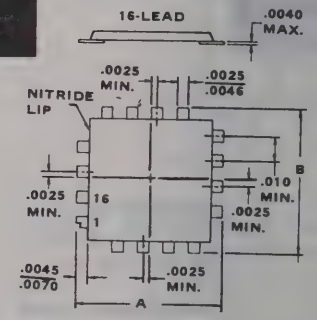
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	–	17.02	–	0.670
B	9.14	9.78	0.360	0.385
D	0.41	0.48	0.016	0.019
G	4.83	5.33	0.190	0.210
H	0.71	0.86	0.028	0.034
J	0.51	–	0.020	–
K	38.10	–	1.500	–
M	42°	48°	42°	48°

DO35



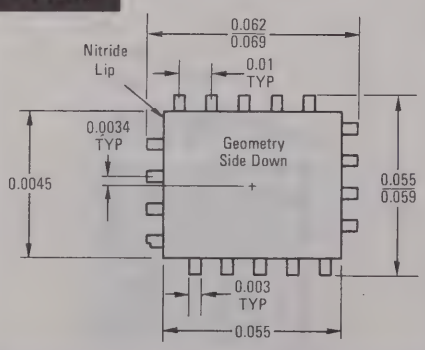
1. PACKAGE CONTOUR OPTIONAL WITHIN DIMENSIONS A & B. SLUGS, IF ANY, SHALL BE INCLUDED WITHIN THIS CYLINDER BUT SHALL NOT BE SUBJECT TO THE MINIMUM LIMIT OF DIM. A.
2. LEAD DIAMETER NOT CONTROLLED IN THIS ZONE TO ALLOW FOR FLASH, LEAD FINISH BUILD-UP, AND MINOR IRREGULARITIES OTHER THAN SLUGS.

FC1

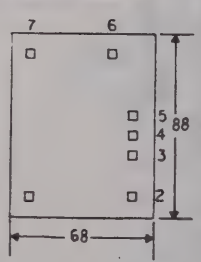


	A	B
FC1	.054 .057	.054 .057
FC1a	.052 .059	.052 .059

FC2



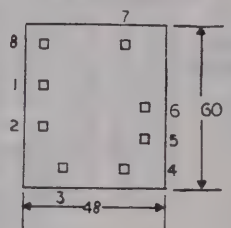
FC3



All dimensions are nominal and in mils (10^{-3} inches).

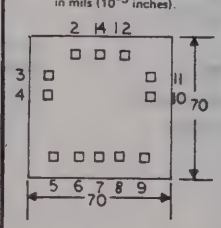
FC4

All dimensions are nominal and in mils (10^{-3} inches).



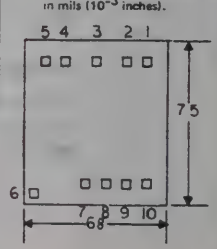
FC5

All dimensions are nominal and in mils (10^{-3} inches).



FC6

All dimensions are nominal and in mils (10^{-3} inches).

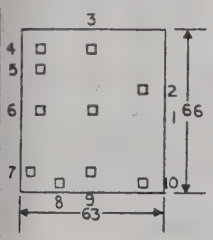


14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

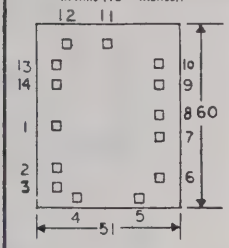
FC7

All dimensions are nominal and in mils (10^{-3} inches).



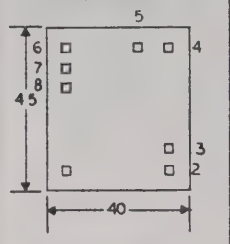
FC8

All dimensions are nominal and in mils (10^{-3} inches).



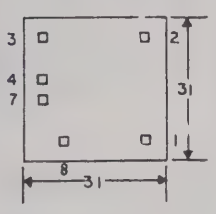
FC9

All dimensions are nominal and in mils (10^{-3} inches).



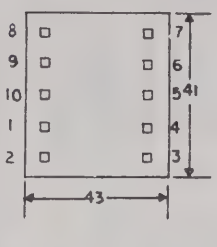
FC10

All dimensions are nominal and in mils (10^{-3} inches).



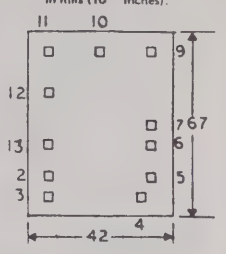
FC11

All dimensions are nominal and in mils (10^{-3} inches).



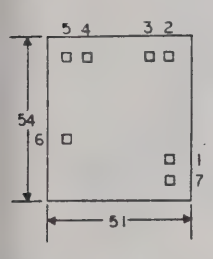
FC12

All dimensions are nominal and in mils (10^{-3} inches).



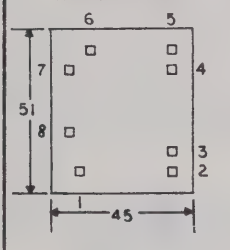
FC13

All dimensions are nominal and in mils (10^{-3} inches).

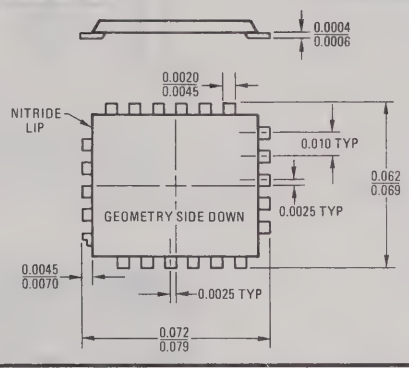


FC14

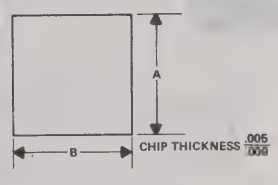
All dimensions are nominal and in mils (10^{-3} inches).



FC15

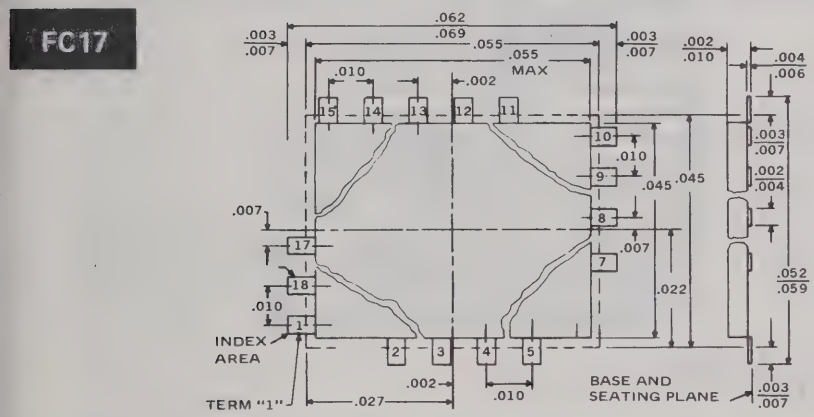


FC16

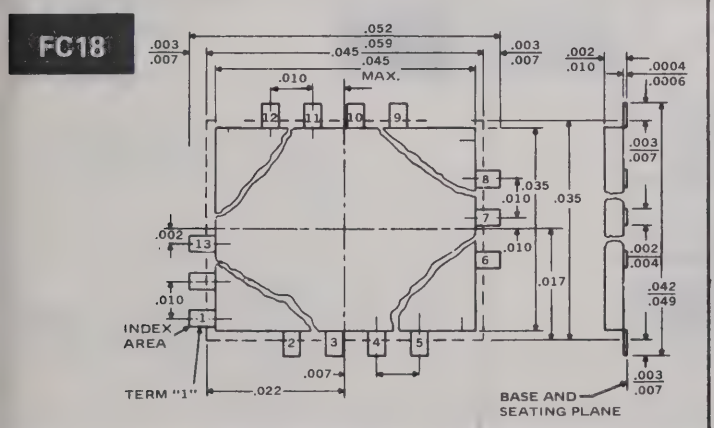


	A	B
FC16	.047 .055	.047 .055
FC16a	.043 .050	.042 .050
FC16b	.058 .066	.062 .070
FC16c	.037 .045	.037 .045
FC16d	.052 .060	.057 .065
FC16e	.047 .055	.052 .060
FC16f	.028 .033	.025 .033
FC16g	.053 .061	.057 .065
FC16h	.052 .060	.052 .060
FC16j	.049 .057	.048 .056
FC16k	.064 .072	.068 .076
FC16m	.029 .037	.029 .037
FC16n	.052 .060	.059 .067
FC16p	.068 .076	.070 .078
FC16q	.056 .063	.056 .064
FC16r	.048 .056	.049 .057
FC16s	.047 .055	.050 .058
FC16t	.027 .035	.032 .040
FC16u	.044 .052	.044 .052
FC16v	.051 .059	.054 .062
FC16w	.045 .057	.051 .059
FC16x	.054 .062	.058 .066
FC16y	.054 .062	.061 .069
FC16z	.052 .060	.101 .109

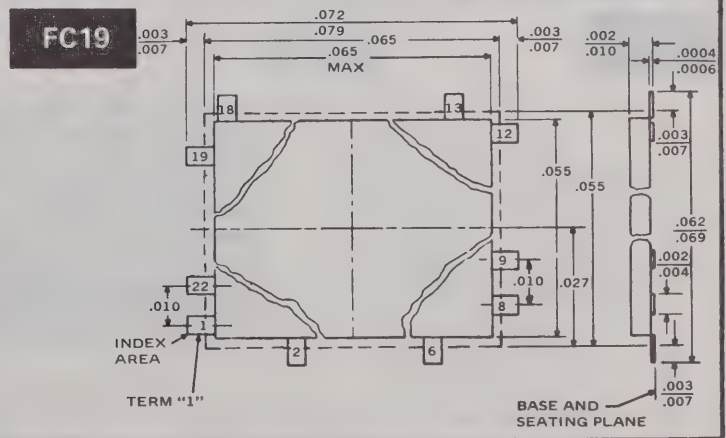
FC17



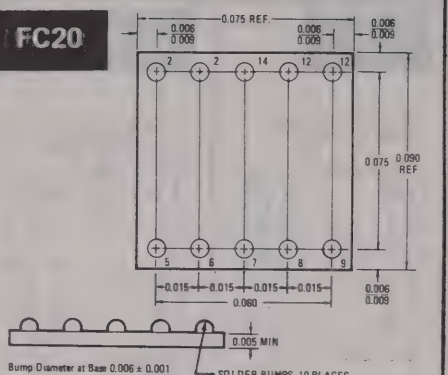
FC18



FC19

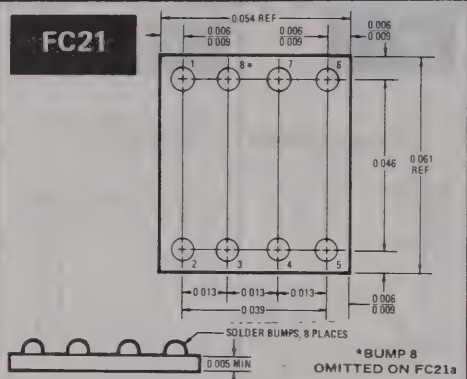


FC20



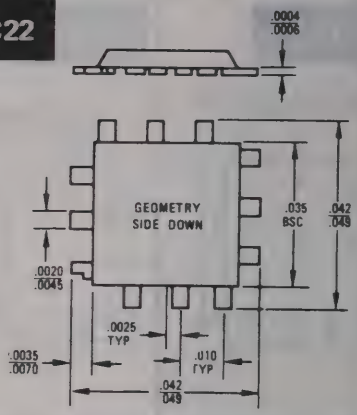
Bump Diameter at Base 0.006 ± 0.001
Bump Height 0.0040 ± 0.0005
Each bump centerline to be located within 0.001 of its true position with respect to any other bump centerline.

FC21

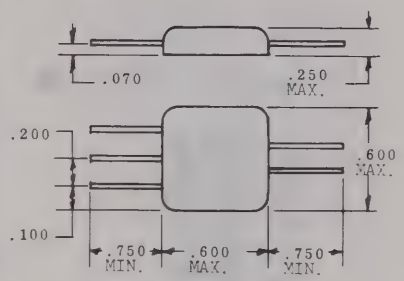


Bump Dia. at Base 0.006 ± 0.001 in. Bump Height 0.0040 ± 0.0005 in.
Each bump centerline to be located within 0.001 in. of its true position with respect to any other bump centerline.

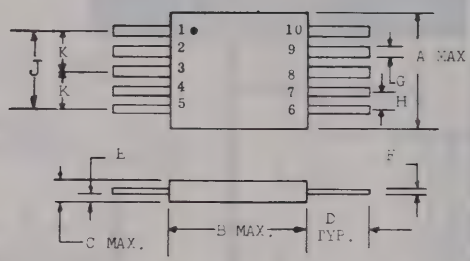
FC22



FP1

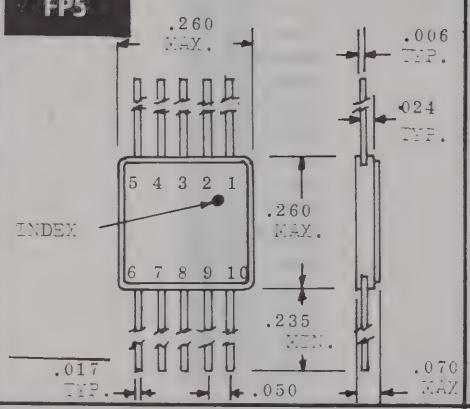


FP2

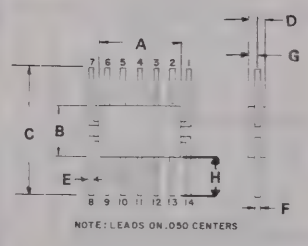


	A	B	C	D	E	F	G	H	J	K
FP2	.260	.260	.070	.250	.024		.019	.050		
FP2a	.260	.260	.060	.250	.024		.019	.050		
FP2b	.290	.260	.075	.070 MIN	.035	.008	.019	.055	.210	
FP2c	.265		.070	.210 MIN	.010 MIN	.009	.018	.050	.200	
FP2d	.260	.260	.050	.188 MAX				.050		
FP2e	.260	.260	.050	.188 TYP				.050		
FP2f	.225	.250	.055							
FP2g	.255	.260	.065	.250		.005	.019	.055		
FP2h	.250	.250	.050 TYP	.210 MIN	.015 TYP	.004 TYP	.019	.050	.200	
FP2j	.255	.255	.070	.250 MIN	.035 MAX		.012	.050		
FP2k	.240 .260	.240 .260		.184 MAX		.003 .005	.014 .019	.045 .055		
FP2m		.265	.070	.210 MIN	.010 MIN	.003 .004	.018 .018	.048 .052	.196 .204	
FP2n	.260 MAX	.260 MAX	.070	.250 MIN	.034 TYP	.004 .005	.018 .019	.050 TYP		
FP2p	.260	.150	.050	.160 MIN	.022	.003 .005		.050	.190 .210	
FP2q	.275 MAX	.170 MAX								
FP2r	.290 MAX	.260 MAX	.070 MAX	.250 MIN	.010 .035	.003 .006	.010 .019	.048 .055		.096 .106
FP2s	.250 .260	.140 .150	.035 .050	.165 .175 REF	.008 .018	.003 .005	.010 .013	.050 TP		
FP2t	.240 .260	.240 .260	.030 .070	.200 .350	.010 .035	.003 .006	.016 .019	.050 T.P.	.160 .240	.080 .120

FP5



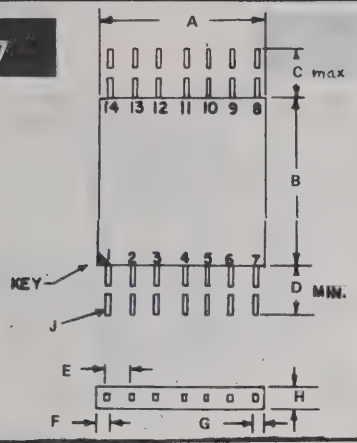
FP6



NOTE: LEADS ON .050 CENTERS

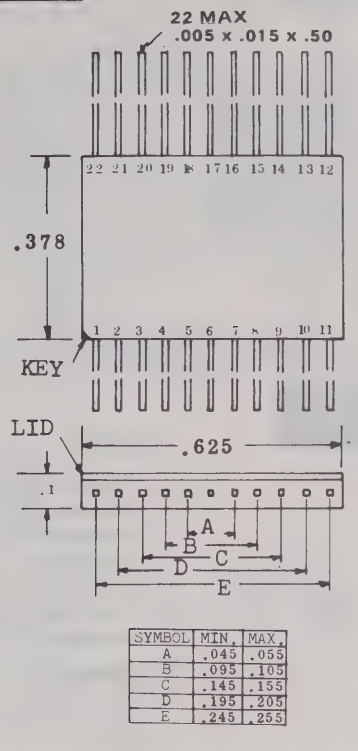
	A	B	C	D	E	F	G	H
FP6	.260 MAX	.260 MAX	.730 TYP	.070 MAX	.017 TYP	.006 TYP	.024	
FP6a	.240 .260	.240 .260	.608 .628	.065 MAX	.014 .019	.003 .005	SYM	
FP6c	.250 MAX	.250 MAX	.670 TYP	.055 MAX				
FP6d	.260 MAX	.260 MAX	1.00 MAX	.050 .065	.015 .020		SYM	
FP6e	.260 MAX	.260 MAX		.070 MAX	.017 TYP	.004 TYP	.024	.235 MIN
FP6f	.260 MAX	.260 MAX	1.00 TYP	.070 MAX	.015 .019	.004 .006	.024 TYP	
FP6g	.265 MAX	.265 MAX		.060 MAX	.016 .019	.004 .006		
FP6h	.250 .260	.140 .150	.490 .510	.035 .050	.010 .013	.003 .005	.008 .018	.165 .175
FP6j	.260 MAX	.260 MAX	.750 TYP	.070 MAX	.013 .019	.004 .006	.020 .030	.250 MIN

FP7



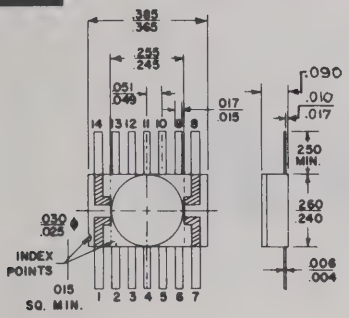
	A	B	C	E	F	H	J
FP7	.390	.390	.500	.050		.076	.005X.015
FP7a	.390	.415	.275			.075	.003X.015
FP7c	.390 MAX	.390 MAX	.500	.055 MAX	.040 MAX	.100	.005X.015
FP7d	.390 MAX	.415 MAX	.275	.055 MAX	.040 MAX	.100	.005X.015
FP7e	.390 MAX	.265 MAX				.070 MAX	.016 .019

FP9

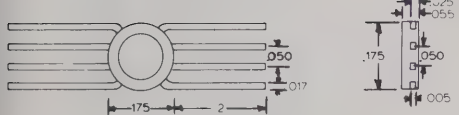


SYMBOL	MIN.	MAX.
A	.045	.055
B	.095	.105
C	.145	.155
D	.195	.205
E	.245	.255

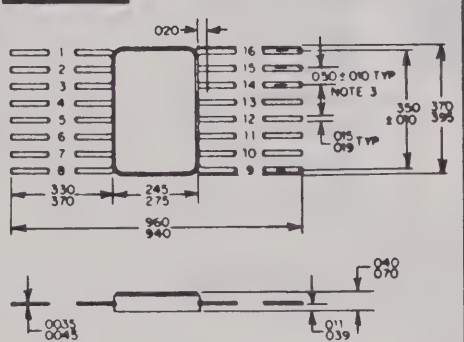
FP10



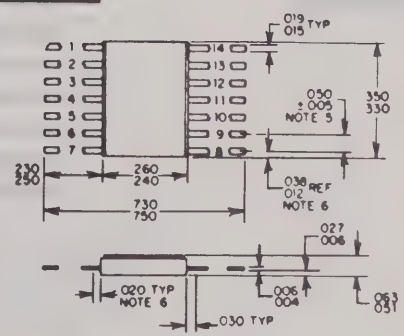
FP12



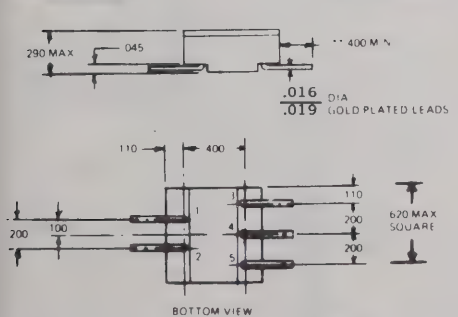
FP13



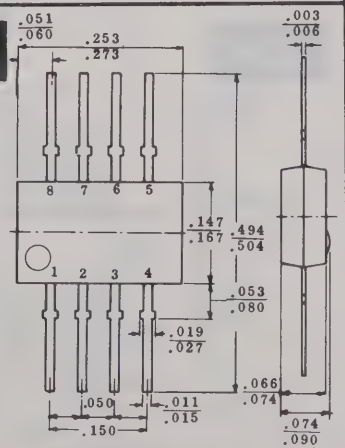
FP14



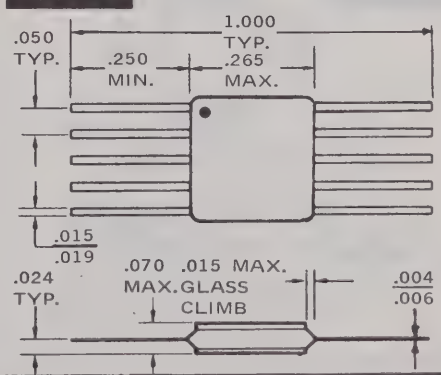
FP15



FP16



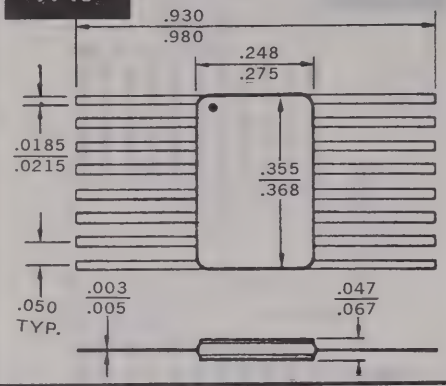
FP18



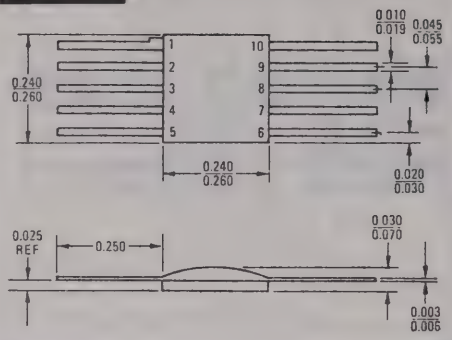
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

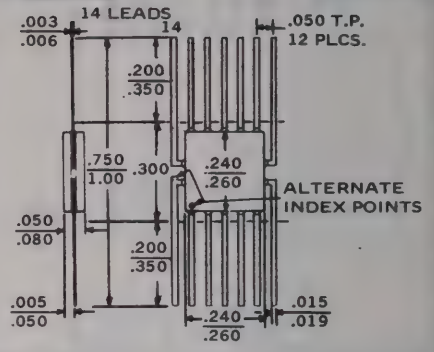
FP19



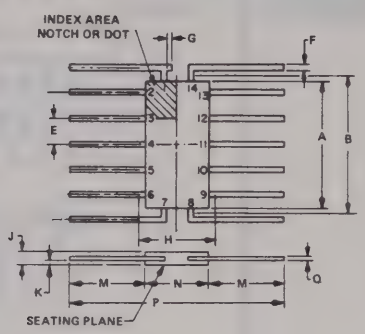
FP21



FP22

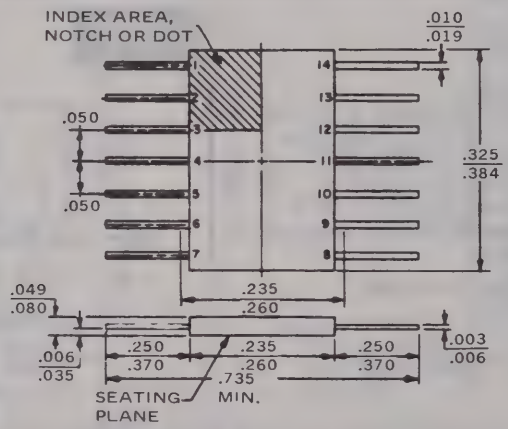


FP24

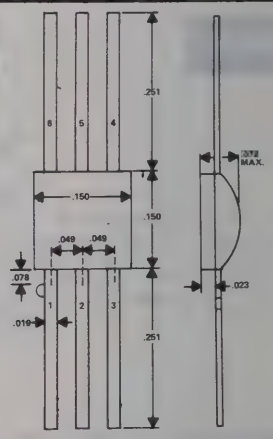


	A	B	E	F	G	H	J	K	M	N	P	Q
FP24	.240 .280	.270 MAX	.050	.010 .019	.010 .015	.280 MAX	.030 .070	.010 .035	.250 .370	.240 .260	.740 MIN	.003 .006
FP24a	.240 .260	.270 MAX	.050	.010 .019	.010 .015	.165 MAX	.030 .070	.010 .035	.165 .250	.120 .155	.450 .760	.003 .006
FP24b	.240 .275	.290 MAX	.050	.010 .019	.015 MAX	.290 MAX	.030 .080	.005 .035	.250 MIN	.240 .275		.003 .006

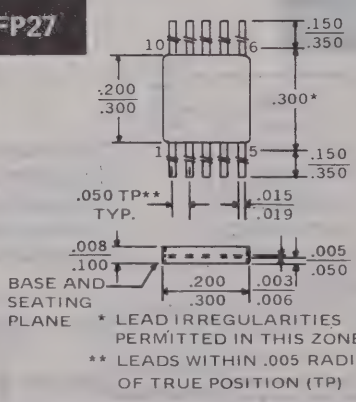
FP25



FP26



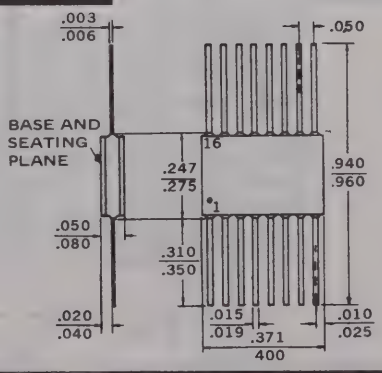
FP27



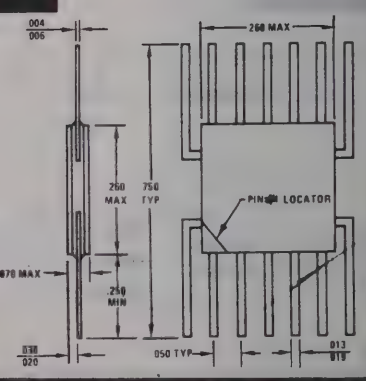
* LEAD IRREGULARITIES PERMITTED IN THIS ZONE

** LEADS WITHIN .005 RADIUS OF TRUE POSITION (TP)

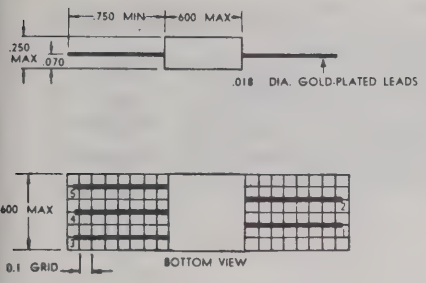
FP28



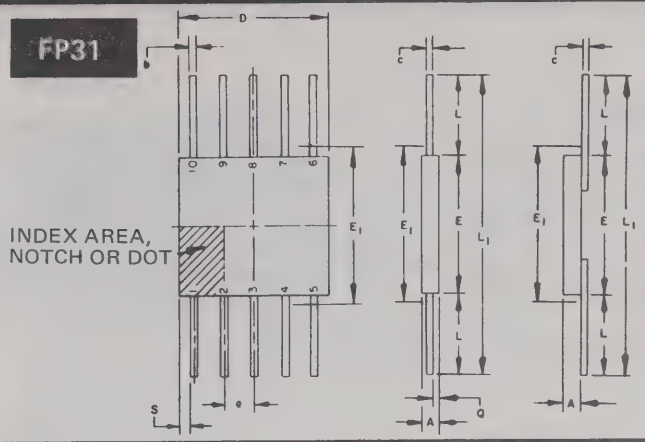
FP29



FP30

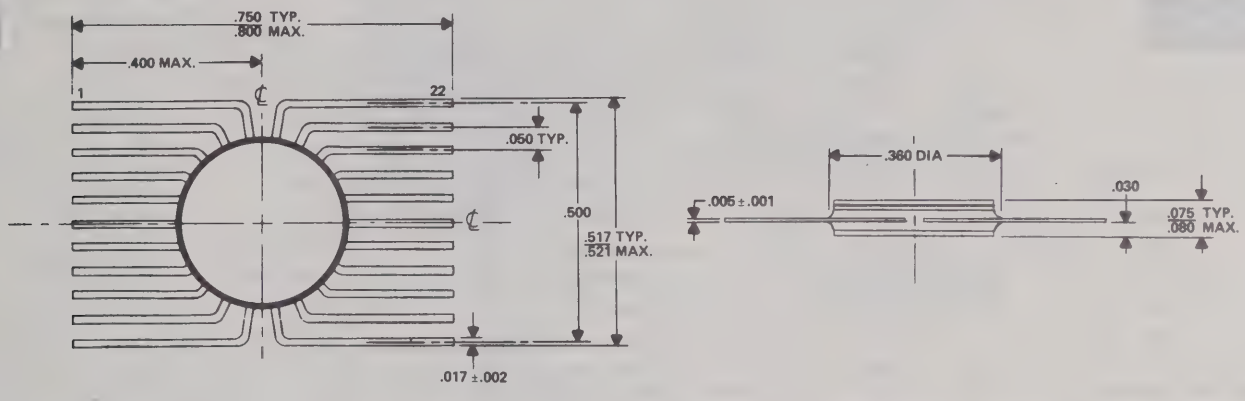


FP31

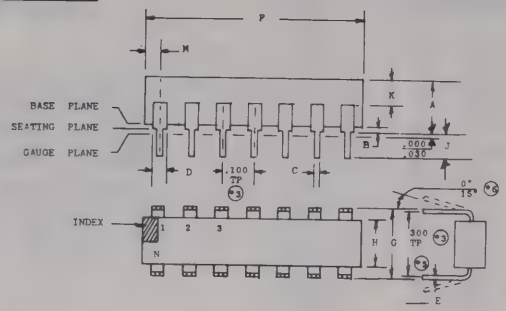


SYMBOL	INCHES		MILLIMETERS	
	MIN	MAX	MIN	MAX
A	.030	.070	.76	1.78
b	.010	.019	.25	.48
c	.003	.006	.08	.15
D	.225	.270	5.72	6.86
E	.240	.260	6.10	6.60
E_1		.280		7.11
e	.050 T. P.		1.27 T. P.	
L	.250	.370	6.35	9.40
L_1	.740		18.80	
Q	.010	.035	.25	.89
S	.010	.023	.25	.58

FP32

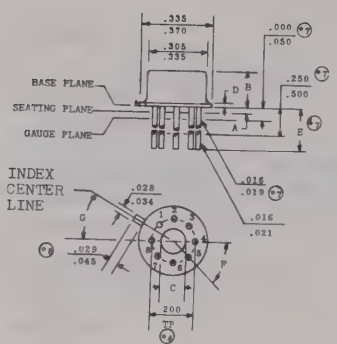


MO001



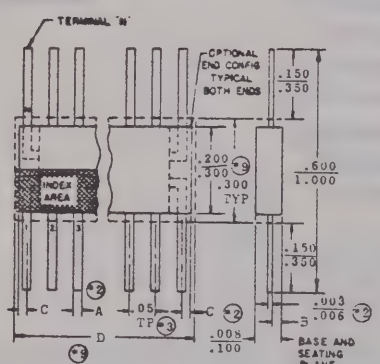
	A	B	C	D	E	F	G	H	J	K	M	NO. OF LEADS
MO001AA	.200 MAX	.020 MIN	.015 .023	.030 .070	.008 .015	.660 .785	.325 MAX	.220 .280	.100 MIN			14
MO001AB	.155 .200	.020 .050	.014 .020	.050 .065	.008 .012	.745 .770	.300 .325	.240 .260	.125 .150	.040 .075	.065 .090	14
MO001AC	.155 .200	.020 .050	.014 .020	.035 .065	.008 .012	.745 .785	.300 .325	.240 .260	.125 .150	.040 .075	.015 .060	16
MO001AD	.120 .160	.020 .065	.014 .020	.050 .065	.008 .012	.745 .770	.300 .325	.240 .260	.125 .150	.050 .085	.065 .090	14
MO001AE	.120 .160	.020 .065	.014 .020	.035 .065	.008 .012	.745 .785	.300 .325	.240 .260	.125 .150	.050 .085	.015 .060	16

MO002



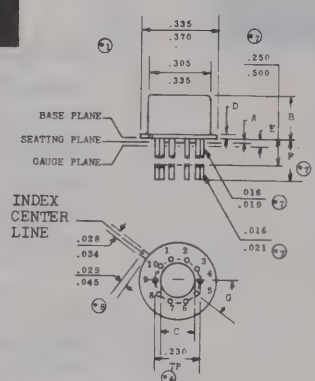
	A	B	C	D	E	F	NO. OF LEADS	NO. OF LEADS MISSING	G
MO002AA	.010 .040	.240 .260	.140 .160	.040 MAX	.500 MIN	45° TP	8	1	22.5° TP
MO002AB	.010 .040	.240 .260	.140 .160	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AC	0 0	.240 .260	0 0	.040 MAX	.500 MIN	30° TP	12	1	15° TP
MO002AD	0 0	.240 .260	0 0	.040 MAX	.500 MIN	36° TP	10	1	18° TP
MO002AE	0 0	.240 .260	0 0	.040 MAX	.500 MIN	60° TP	6	1	0° TP
MO002AF	0 0	.240 .260	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AG	0 0	.165 .185	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AH	0 0	.140 .160	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AJ	0 0	.085 .105	0 0	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AK	.010 .040	.165 .185	.140 .160	.040 MAX	.500 MIN	45° TP	8	3	0° TP
MO002AL	.010 .050	.165 .185	.125 .160	.020 .040	.500 .562	45° TP	8	3	0° TP

MO004



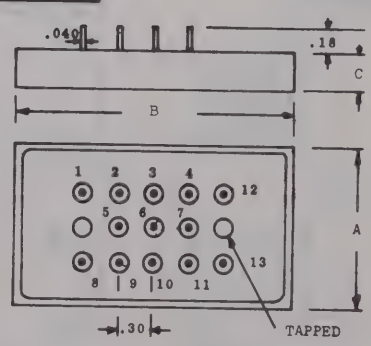
	A	No. OF LEADS	B	C	D
MO004AA	.015 .019	14	.005 .050	.000 .025	.350 TYP
MO004AB	.013 .017	14	.005 .050	.000 .025	.350 TYP
MO004AC	.015 .019	14	.000 .097	.000 .025	.350 TYP
MO004AD	.015 .019	10	.005 .050	.000 .050	.300 TYP
MO004AE	.015 .019	10	.005 .050	.000 .025	.250 TYP
MO004AF	.015 .019	14	.005 .050	.000 .050	.400 TYP
MO004AG	.015 .019	16	.005 .050	.000 .025	.400 TYP
MO004AH	.015 .019	16	.005 .050	.000 .050	.450 TYP

MO006



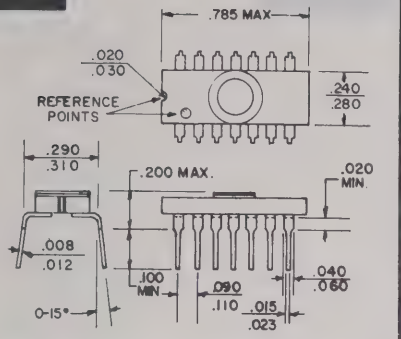
	A	B	C	D	E	F	G	NO. OF LEADS
MO006AA	.010 .040	.240 .260	.140 .160	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AB	0 0	.240 .260	0 0	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AC	0 0	.140 .160	0 0	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AD	.010 .140	.165 .185	.140 .160	.040 MAX	.050 MAX	.500 MIN	36° TP	10
MO006AE	.010 .040	.165 .185	.140 .160	.040 MAX	.050 MAX	.500 MIN	30° TP	12
MO006AF	0 0	.165 .185	0 0	.020 .040	.000 .050	.500 .562	36° TP	10
MO006AG	0 0	.165 .185	0 0	.020 .040	.000 .050	.500 .562	30° TP	12

MP2



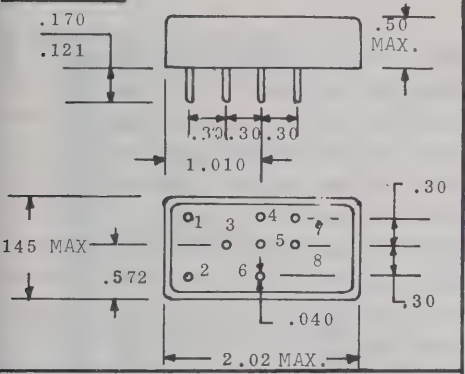
	A	B	C	PINS OMITTED
MP2	1.20	1.80	.600	4,6,11,12,13
MP2a	1.80	2.40	.600	6,12,13
MP2b	2.00	2.00	1.00	4,5,6,11,12,13
MP2c		1.80	.600	4,6,11,12,13
MP2d	1.20	1.80	.600	4,5,6,11,12,13
MP2e	1.80	2.40	.600	4,5,6,11,12,13
MP2f	1.80	2.40	.600	2,4,5,6,9,11,12,13
MP2g	1.80	2.40	.600	12,13
MP2h	1.80	2.40	.600	4,11,12,13
MP2j	1.20	1.80	.600	2,4,5,6,9,11,12,13
MP2k	2.00	2.00	.700	2,4,5,6,9,11,12,13
MP2m	1.80	2.40	.600	4,6,7,11,12,13
MP2n	1.80	2.40	.600	2,3,4,6,6,7,9,11
MP2p	1.80	2.40	.600	4,6,11,12,13
MP2q	1.20	1.80	.600	6,12,13
MP2r	1.20	1.80	.600	2,4,6,9,11,12,13
MP2s	1.80	2.40	.600	2,5,6,9,12,13
MP2t	1.80	2.40	.600	5,6,12,13
MP2u	1.80	2.40	.610	4,12,6,13

MP3



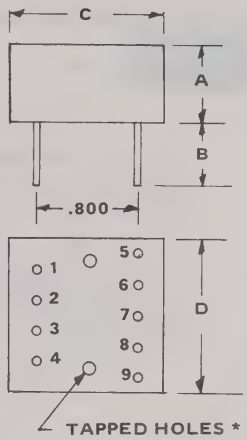
MP4

MP4a-OMIT PIN NO. 7



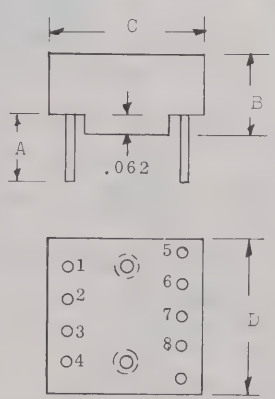
MP5

	A	B	C	D	REMARKS	TAPPED HOLES
MP5	.580	.20	1.125	1.125		
MP5a	.625	1.5	1.125	1.125		
MP5b	.500	1.5	1.125	1.125		
MP5c	.580	.20	1.125	1.125	PINS 1and4 OMITTED	
MP5d	.580	.20	1.125	1.125	PINS 1,4,6 OMITTED	
MP5e	.375	.20	1.125	1.125	PINS 1and4 OMITTED	
MP5f	.500	.20	1.125	1.125	PINS 1and4 OMITTED	
MP5g	.515	.25	1.125	1.125	PINS 1and4 OPTIONAL and 6 OMITTED	*
MP5h	.630	.25	1.125	1.125	PINS 1and4 OPTIONAL	*
MP5j	.630	.25	1.125	1.125	PINS 1and4 OPTIONAL and 6 OMITTED	*
MP5k	.500	.20	1.00	1.125	PINS 1and4 OMITTED	
MP5m	.620	.20	1.50	1.125	PINS 1and4 OMITTED	
MP5n	.400	.25	1.50	1.125	PINS 1and4 OMITTED	
MP5p	.570	.25	1.12	1.125	PINS 1and4 OMITTED	
MP5q	.400	.25	1.5	1.125		
MP5s	.400	.20	1.12	1.125	PINS 1and4 OMITTED	
MP5u	.400	.25	1.1	1.1	PINS 1and4 OPTIONAL and 6 OMITTED	*
MP5v	.420	.25	1.1	1.1	PINS 1and4 OPTIONAL	*
MP5x	.25	.50	.60	.60	PINS 1and4 OMITTED	
MP5y	.50	.50	1.13	1.13	PINS 1and4 OMITTED	
MP5z	.50	.50	1.13	1.13	PIN 4 OMITTED	
MP5aa	.400	1.00	1.12	1.12	PINS 1and4 OMITTED	
MP5ab	.400	.250	1.50	1.50		
MP5ac	.400	.250	1.50	1.50	PINS 1and4 OMITTED	
MP5ad	.430	.250	1.12	1.12	PINS 1and4 OMITTED	
MP5ae	.625	.250	2.20	1.14		
MP5aj	.620	.20	1.12	1.12	PINS 1and4 OMITTED	
MP5ak	.500	.500	1.13	1.13		
MP5am	.500	.250	1.12	1.12	PINS 1,4,9 OMITTED	
MP5an	.620	.250	1.5	1.5	PINS 1and4 OMITTED	*
MP5aq	.400	.250	1.1	1.1	PINS 1,4,6 OMITTED	
MP5ar	.630	.250	1.1	1.1	PIN 6 OMITTED	
MP5au	.400	.200	1.50	1.50	PINS 1and4 OMITTED	
MP5av	.825		3.50	2.50	PIN 4 OMITTED	
MP5aw	.500	.250	1.50	1.50	PINS 1and4 OMITTED	
MP5ax	.500	.500	1.13	1.13	PINS 1and4 OMITTED	
MP5ay	.500	.250	1.50	1.50	PIN 4 OMITTED	
MP5az	.500	.500	1.50	1.50		
MP5ba	.590	.200	1.12	1.12	PINS 1and4 OMITTED	*
MP5bb	.625	1.5	1.125	1.125	PINS 1and4 OMITTED	
MP5bc	.580	.200	1.12	1.12	PIN 6 OMITTED	
MP5bd	.500	.220	1.50	1.50		
MP5be	.380	.220	2.50	1.75		
MP5bf	.400 MAX	.200 .250	1.00	1.00	PINS 1and4 OMITTED	
MP5bg	.500	.200 MIN .250	1.50	1.50		
MP5bh	.620	.200 .250	1.50	1.50	PIN 4 OMITTED	
MP5bj	.380	.220	1.12	1.12	PINS 1and4 OMITTED	
MP5bk	.375	.250 MIN	1.125	1.125		
MP5bm	.610 MAX	.200 MIN	1.51 MAX	1.51 MAX		
MP5bn	.500	.200 .250	1.00	1.00	PINS 1and4 OMITTED	
MP5bp	.635 MAX	.200 .250	2.03 MAX	1.15 MAX		
MP5bq	.400 MAX	.200 .250	1.13 MAX	1.13 MAX	PINS 1and4 OMITTED	
MP5br	.520 MAX	.250 MIN	2.70 MAX	1.50 MAX		
MP5bs	.500 MAX	.200 MIN	2.00	1.50		
MP5bt	.590	.200 MIN	1.12	1.12	PINS 1,4 and 6 OMITTED	
MP5bu	.520 MAX	.200 MIN	1.02 MAX	1.02 MAX	PINS 1 and 4 OMITTED	
MP5bv	.415 MAX	.200 MIN	1.51 MAX	1.51 MAX	PINS 1 and 4 OMITTED	
MP5bw	.600	.200 MIN	1.50	1.50	PINS 1 and 4 OMITTED	
MP5bx	.400 MAX	.200 MIN	1.50 MAX	1.50 MAX		
MP5by	.500 MAX	.200 MIN	1.12 MAX	1.12 MAX		
MP5bz	.500 MAX	.200 MIN	1.12 MAX	1.12 MAX	PINS 1 and 4 OMITTED	
MP5ca	.500 MAX	.200 MIN	1.12 MAX	1.12 MAX	PINS 1,4,6and9 OMITTED	
MP5cb	.400 MAX	.200 MIN	1.50 MAX	1.50 MAX	PIN 4 OMITTED	
MP5cc	.500 MAX	.200 MIN	1.50	1.50	PINS 1 and 4 OMITTED	
MP5cd	.400	.200 .250	1.00 MAX	1.00 MAX	NONE	NO
MP5ce	.500 MAX	.200 MIN	1.12	1.12	PIN 1,4,7and9 OMITTED	NO *
MP5cf	.563	.250 MIN	1.125	1.125		
MP5cg	.437	.250 MIN	1.125	1.125		

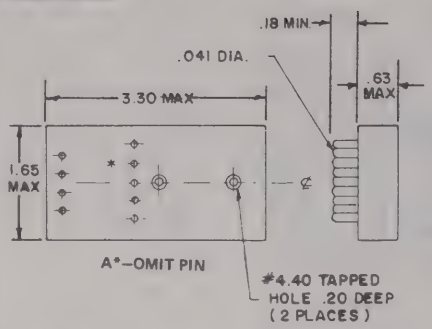


MP6

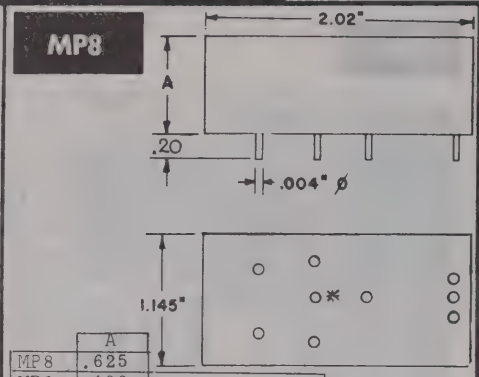
	A	B	C	D	REMARKS
MP6	.190	.625	1.125	1.125	PINS 1and4 OMITTED AND TAPPED HOLES OPTIONAL
MP6a	1.50	.625	1.125	1.125	WITHOUT TAPPED HOLES
MP6b		.625	1.125	1.125	PINS 1and4 OMITTED AND WITHOUT TAPPED HOLES
MP6c	.200	.625	1.125	1.125	PINS 1and4 OMITTED AND WITHOUT TAPPED HOLES
MP6e	1.06	.620	1.20	1.12	PINS 1and4 OMITTED and WITHOUT TAPPED HOLES
MP6f	1.00	.620	1.12	1.12	PINS 1and4 OMITTED and WITHOUT TAPPED HOLES
MP6g	.200 .250	.640 MAX	1.13 MAX	1.13 MAX	PINS 1and4 OMITTED and WITHOUT TAPPED HOLES
MP6h	.250	.620	1.12	1.12	PINS 1,4,5 OMITTED
MP6j	.250	.687	1.125	1.125	PINS 1and4 OMITTED
MP6k	.250	.687	1.125	1.125	PINS 1and4 OMITTED and WITHOUT TAPPED HOLES
MP6m	.250	.620	1.12	1.12	PINS 1and4 OMITTED
MP6n	.795	.270	.615	.615	PINS 1,2,6and8 OMITTED and WITHOUT TAPPED HOLES
MP6p	.250 MIN	.625	1.125	1.125	NO PINS OMITTED and NO TAPPED HOLES
MP6q	.250 MIN	.500	1.125	1.125	NO PINS OMITTED and NO TAPPED HOLES
MP6r	.545	.290 MAX	.620 MAX	.620 MAX	PINS 1,4,6,8 OMITTED and WITHOUT TAPPED HOLES
MP6s	.795	.290 MAX	.620 MAX	.620 MAX	PINS 1,4,6,8 OMITTED and WITHOUT TAPPED HOLES



MP7

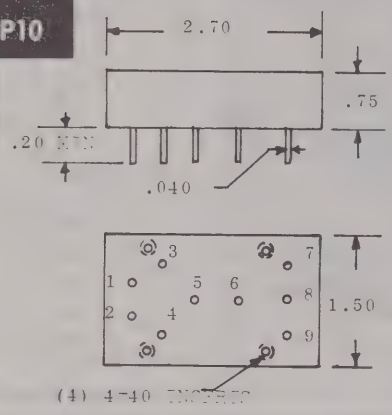


MP8

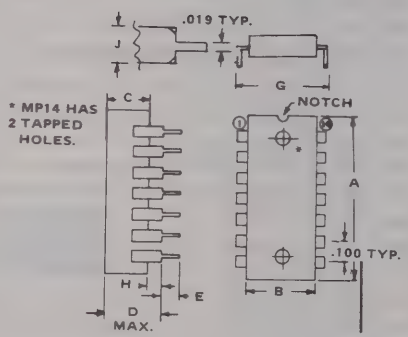


	A	
MP8	.625	
MP8a	.400	
MP8b	.625	*-PIN OMITTED
MP8c	.400	*-PIN OMITTED

MP10

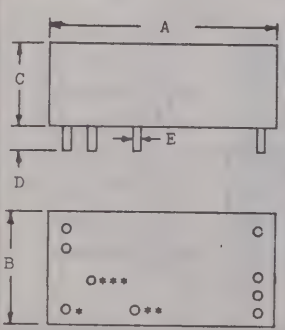


MP14



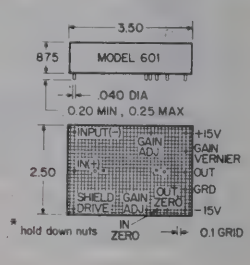
	A	B	C	D	E	G	H	J
MP14	.750	.250	.145	.180 MAX	1.00 MIN	.310	.020 MIN	
MP14b	.715	.270	.120		.180	.305	.020 MIN	
MP14c	.715	.265	.110	.145	.145	.350	.020 MIN	
MP14d	.760	.260	.120	.150	.160		.020 MIN	
MP14g	.697	.256	.177	.197	.0196	.394	.020 MIN	
MP14h	.750	.260		.160 MAX	.120 MIN		.015 MIN	
MP14j	.690	.250	.200	.220	.080	.350	.020 MIN	
MP14k	.790		.180	.200	.165		.020 MIN	
MP14m	.710	.235 .270	.100 .120	.150 .190	.120 .130	.350 TYP	.050 .070	.045 TYP
MP14p	.700 .720	.215 .235	.160	.187	.110 TYP	.350 TYP	.020 MIN	
MP14r	.725 MAX	.265 MAX	.160	.180 MAX	.125	.360 MAX	.020	
MP14s	.745 .770	.260 .280	.140	.160	.150 MIN	.290 .310	.020 MIN	
MP14t	.780 MAX	.240 .280	.185	.200		.300 .400	.015	.040 .050
MP14u	.750 MAX	.500	.185	.200		.600 .700	.015	.040 .050
MP14v	.750 .785	.245 .271	.185	.200 MAX	.100 .165	.375	.015 MIN	
MP14w	.740 .770	.240 .280	.145	.160 MAX	.120 MIN	.325 .375	.015 MIN	.040 .050
MP14x	.755 .785	.265 .291	.150 MIN	.170 .219	.100 .165	.375	.020 MIN	.045 .065
MP14y	.765	.256	.140	.170	.125	.300	.020 .040	
MP14z	.660 .785	.220 .280	.200 MAX	.255 MAX	.100 MIN	.290 .310	.015 .055	.030 .070
MP14aa	.696 MAX	.253 MAX	.056	.140	.143	.299	.029	
MP14ab	.690 .710	.240 .260	.070 .090	.130 .150	.120 .140	.290 .310	.050 .070	.040 .060

MP17



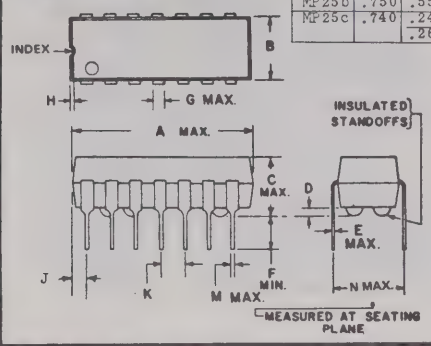
	A	B	C	D	E	REMARKS
MP17	2.87	1.37 MAX	.99 MAX	.250 MAX	.040	TAPPED HOLES OMITTED *-NC
MP17a	2.87	1.37 MAX	.99 MAX	.250 MAX	.040	TAPPED HOLES OMITTED *-CONNECTED
MP17b	2.87	1.37 MAX	.99 MAX	.250 MAX	.040	WITH TAPPED HOLES *-NC
MP17c	2.87	1.37 MAX	.99 MAX	.250 MAX	.040	TAPPED HOLES OMITTED *-NC **-NC
MP17d	2.81	1.31	.625	.020 MIN		TAPPED HOLES OMITTED *-NC **-NC ***-NC

MP18

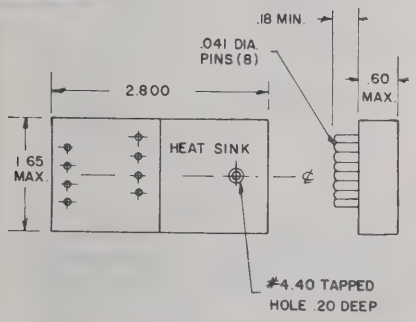


MP25

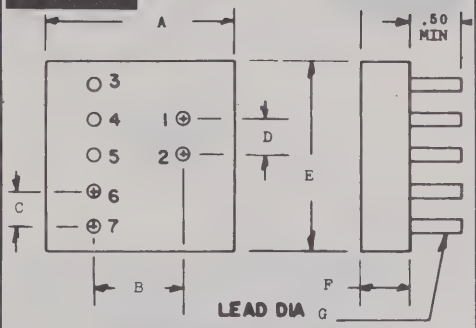
	A	B	C	D	E	F	G	H	J	K	M	N
MP25	.750	.235 .250	.180	.020	.012	.100				.100	.021	.310
MP25a	.750	.240 .260	.200	.030	.015	.150	.070	.025	.062	.100	.023	.310
MP25b	.750	.550	.200	.030	.011	.150	.050		.075	.100	.028	.615
MP25c	.740	.240 .260	.200	.030	.015	.100	.070	.025	.062	.100	.023	.310



MP26

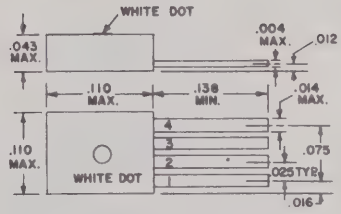


MP31

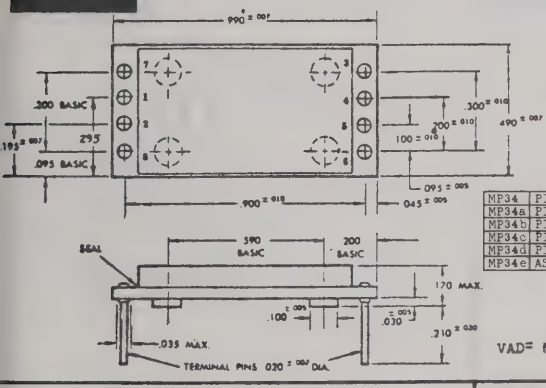


A	B	C	D	E	F	G
.650	.500	.100	.100	.650	.250	.017

MP33



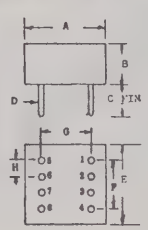
MP34



MP34	PIN 2,4,5,7,8 OMITTED
MP34a	PIN 2,7,8 OMITTED
MP34b	PIN 1,4,5,7,8 OMITTED
MP34c	PIN 1,7,8 OMITTED
MP34d	PIN 2,5,7,8 OMITTED
MP34e	AS SHOWN

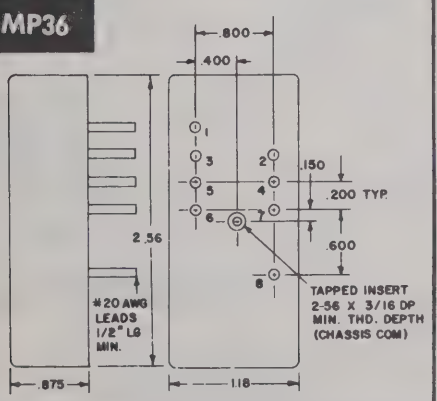
VAD= MP34a

MP35



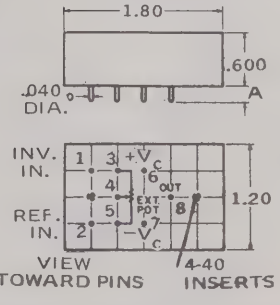
	A	B	C	D	E	F	G	H	REMARKS
MP35	.750	.350	.500	.031	.750				PINS 1 AND 4 OMITTED
MP35a	.500	.400	.250	.019	.500				PINS 2 AND 3 OMITTED
MP35b	1.62	2.37				1.18	1.18	1.37	
MP35c	2.00	.400	.150	.020	1.50				PINS 6 AND 7 OMITTED

MP36

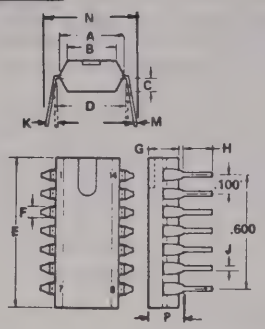


MP38

	A	REMARKS
MP38	.180 MIN	
MP38a	.200 .250	OMIT PINS 4 and 5

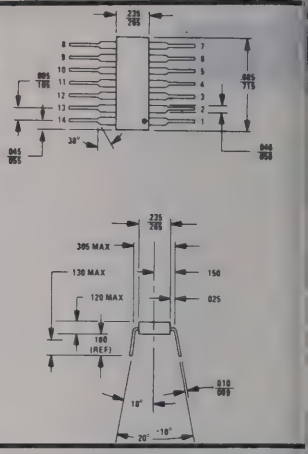


MP39

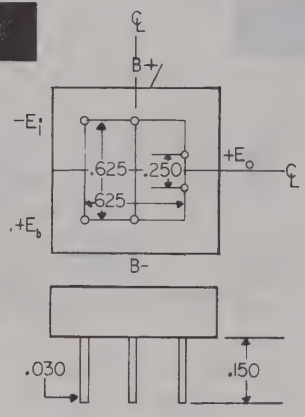


	A	B	C	D	E	F	G	H	J	K	M	N	P
MP39	.250	.210	.055	.300	.750	.060	.130	.135	.018				
MP39a	.280 .240				.750 MAX			.125 MIN	.023 .015	0° 15°	.008 .015	.300 .350	.200 MAX
MP39b	.240 .255			.322	.755	.043 .062	4.32	.102 .150	.015 .020		.007 .011	.290 .375	.200
MP39c	.250	.205 .215		.290 .310	.785 MAX	.045 .065	.180 MAX	.125	.016 .020		.009 .011	.375	.200 MAX
MP39d	.240 .260			.290 .310	.740 .760	.045 .065	.165 MAX	.100 .150	.016 .020		.009 .011	.375	.200 MAX
MP39e	.260 MAX			.310	.760 MAX		.140 MAX	.125 MIN	.015 .021		.008 .012	.350 MAX	.175 MAX
MP39f				.290 .310	.783 MAX			.100	.017	15° MAX	.013 MAX		.200 MAX
MP39g	.260 MAX				.790 MAX		.140 MAX	.125 MIN	.015 .021		.008 .012	.210 .350	.175 MAX
MP39h	.240 .260			.290 .310	.710 .770	.070 MAX	.180	.125 MIN	.015 .021		.008 .014	.300 .350	.200 MAX
MP39j	.220 .280				.785 MAX	.030 .070		.100 MIN	.015 .023	0° 15°	.008 .015		.200 MAX
MP39k	.252 MAX		.058	.300 .310	.740	.060	.156 MAX	.125 MAX	.018	5°	.009 .011	.330 .370	.181
MP39m	.244 .259			.291 .307	.744 .767		.161	.122 .161	.017	20°	.009	.299 .322	.181 MAX
MP39n	.245 .255		.065	.300 .320	.770 MAX		.125 .135	.125 MIN	.015 .021		.009 .015	.310 .350	.145 .155

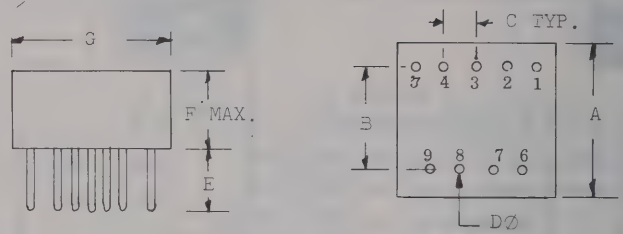
MP40



MP41



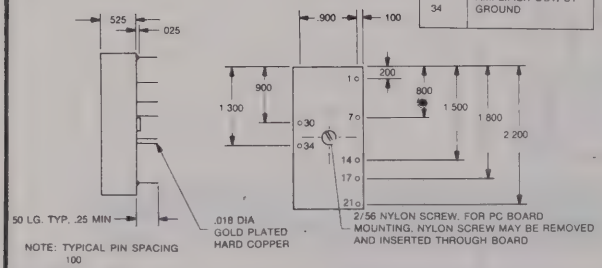
MP42



	A	B	C	D	E	F	G	REMARKS
MP42	1,500	.800	.200	.040	.210	.400	1,500	
MP42a	1,125	.800	.200	.040	.210	.500	1.125	PINS 8and9 OMITTED
MP42b	1,500	.800	.200	.040	.210	.400	1.500	PINS 8and9 OMITTED
MP42c	1,500	1,10	.200			.600	1,500	

MP43

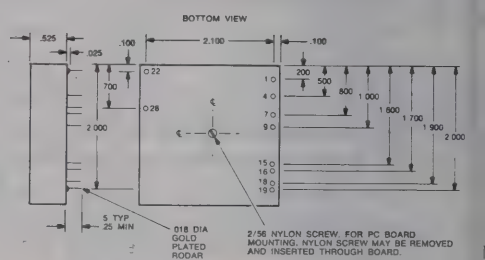
PIN NO.	FUNCTION
1	+22V SUPPLY
7	+ INPUT
14	− INPUT
17	ALTERNATE OUTPUT
21	−22V SUPPLY
30	AMPLIFIER OUTPUT
34	GROUND



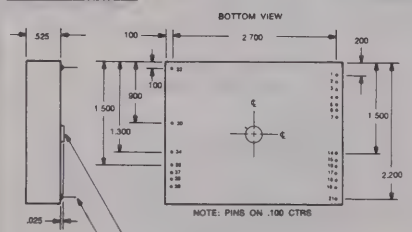
NOTE: TYPICAL PIN SPACING
100

MP44

PIN NO.	FUNCTION
1	+ 22V SUPPLY
4	MINUS ( ) INPUT
7	PLUS (+) INPUT
9	22V SUPPLY
15	ANALOG GROUND NO. 1
16	INPUT NO. 1
18	ANALOG GROUND NO.2
19	INPUT NO. 2
22	GROUND
28	OUTPUT



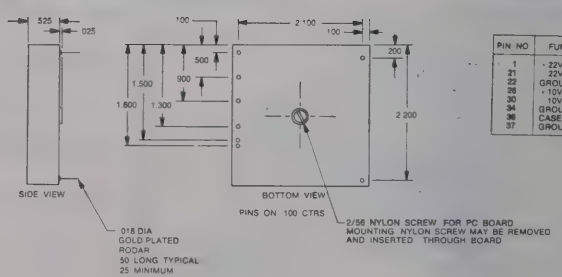
MP45



PIN NO	FUNCTION
1	+22V
2	+ INPUT
3	SHIELD INPUT
4	− INPUT
5	CM FILTER
6	GUARD DRIVE
7	GAIN SELECT
14	GAIN 50
15	" 100
16	" 200
17	" 500
18	GAIN 1000
19	VAR GAIN
21	−22V
22	SUPPLY GROUND
30	OUTPUT
34	OUTPUT GROUND
36	CASE SHIELD
37	SIGNAL COMMON

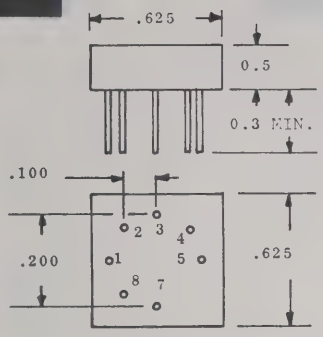
NOTE Pins 22, 34, 36, and 37 are connected internally

MP46

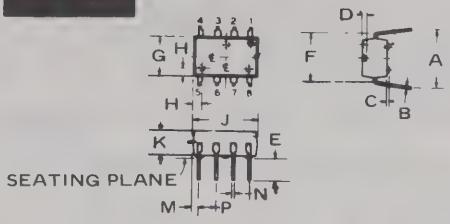


PIN NO	FUNCTION
1	− 22V SUPPLY
21	22V SUPPLY
22	GROUND
28	+ 10V OUTPUT
30	− 10V OUTPUT
34	GROUND
36	CASE SHIELD
37	GROUND

MP47

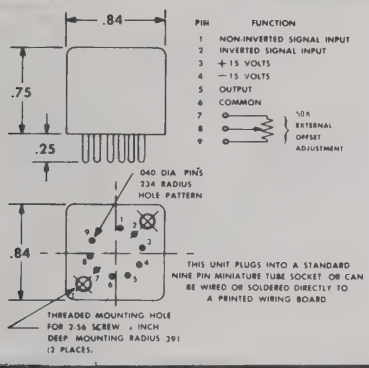


MP48

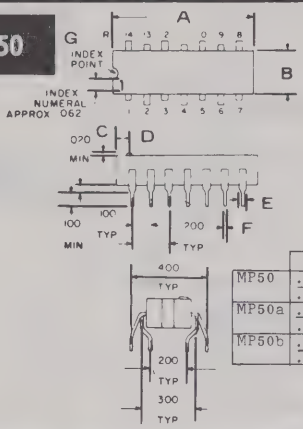


	A	B	C	D	E	F	G	H	J	K	M	N	P
MP48	.325 .375	.009 .015	.020	.035 MIN	.070 .140	.290 .310	.236 .256	.050	.363 .393	.130 .150	.039	.018	.100
MP48a	.375	.009 .011	.040 MAX	.035	.125 MIN	.290 .310	.236 .256	.050	.363 .393	.130 .150	.039	.018	.100
MP48b	.325 .375	.009 .015	.020	.035 MIN	.120 .140	.290 .310	.236 .256	.050	.363 .393	.130 .150	.039	.018	.100

MP49

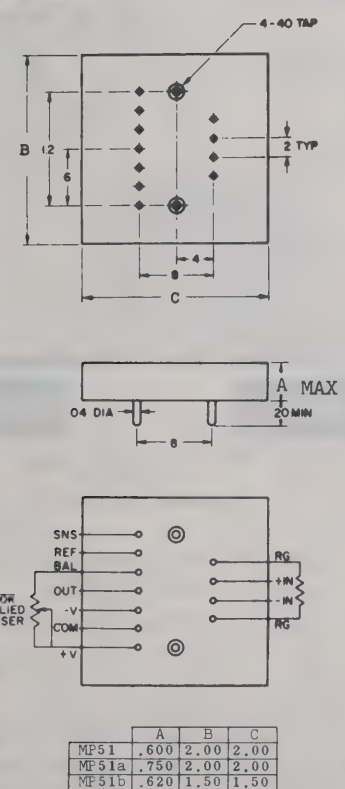


MP50



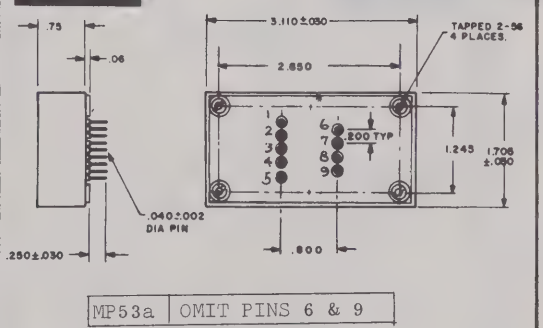
	A	B	C	D	E	F	G	H	REMARKS
MP50	.750 .770	.240 .260	.005 MAX	.070 .090	.040 .060	.015 .023	.020 .030	.062	
MP50a	.745 .785	.260 .280	NA	NA	.050 .070	.022 .028		N.A.	NO INDEX NUMERAL
MP50b	.750 .770	.240 .280	NA	NA	.040 .060	.015 .023	.020 .030	N.A.	

MP51



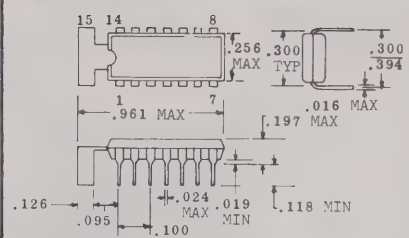
	A	B	C
MP51	.600	2.00	2.00
MP51a	.750	2.00	2.00
MP51b	.620	1.50	1.50

MP53

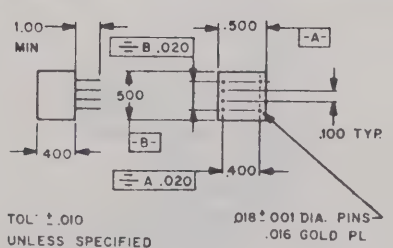


MP53a	OMIT PINS 6 & 9

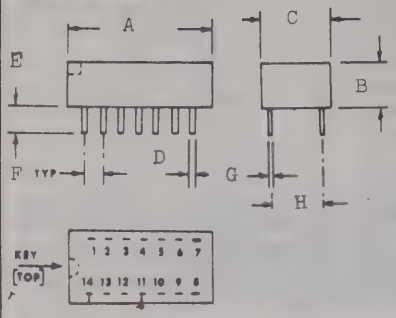
MP55



MP57

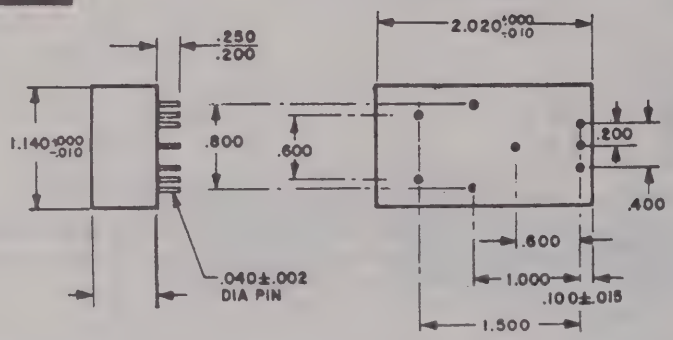


MP58



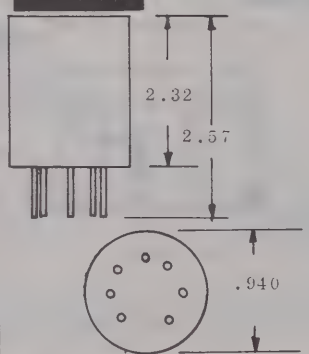
	A	B	C	D	E	F	G	H	REMARKS
MP58	.800 MAX	.270 MAX	.360 MAX	.021 .015	.150 .100	.100	.011 .009	.300	
MP58a	.760 MAX	.250 MAX	.460 MAX	.020	.150				
MP58b	.760 MAX	.250 MAX	.460 MAX	.020	.180 MIN				
MP58c	.800	.380	.480	.025	.120 MIN	.100		.300	OMIT PINS 1,2,4,7,8, 12,13,14
MP58d	.785 MAX	.185 M..X	.450 MAX	.016 .020	.187 MIN	.100		.300	DOT ON PIN 1, NO KEY
MP58e	.800 MAX	.220	.360	.023	.145 MIN		.011	.300	
MP48f	.800 MAX	.200	.500 MAX		.150	.100		.300	NO KEY
MP58g	.760 MAX	.250 MAX	.460 MAX	.020	.180 MIN			.300	OMIT PINS 1,2,3,7,8, 9,13,14

MP60

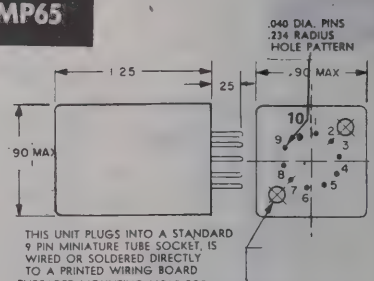


	A
MP60	.625

MP63

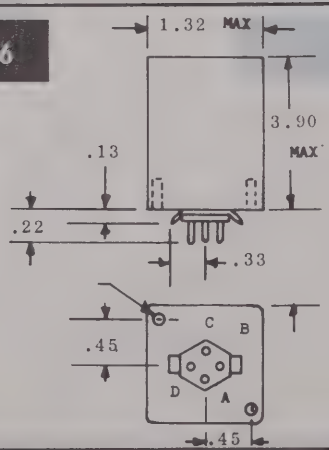


MP65

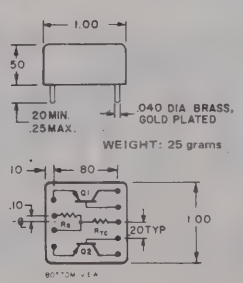


	REMARKS
MP65	OMIT PIN 10
MP65a	OMIT PIN 9

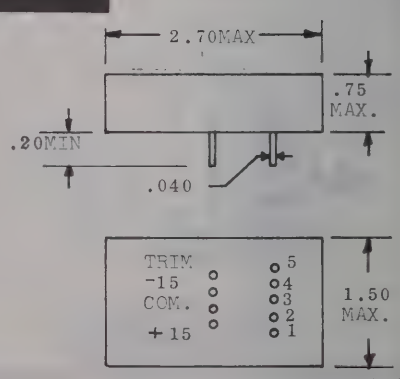
MP66



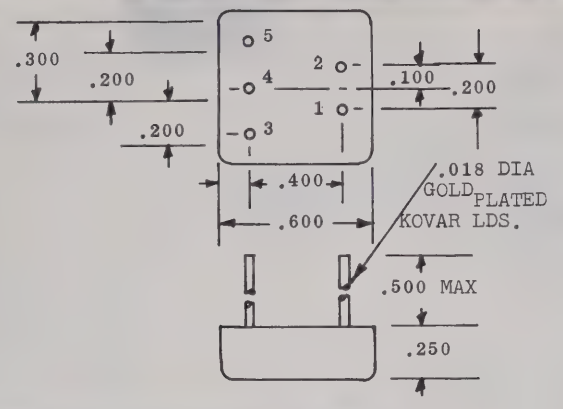
MP67



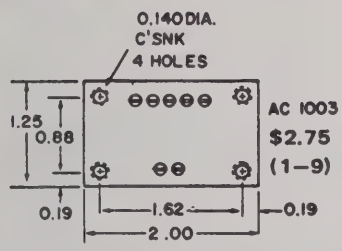
MP68



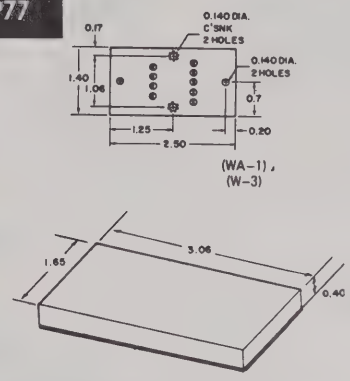
MP72



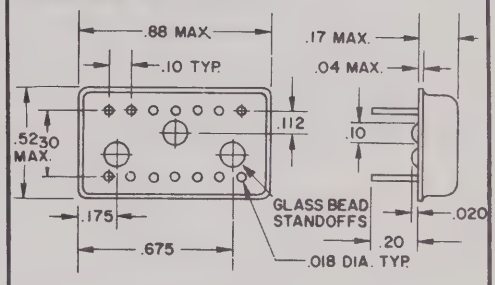
MP75



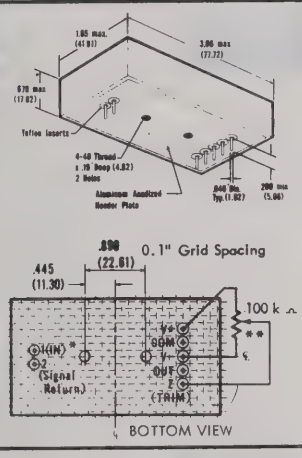
MP77



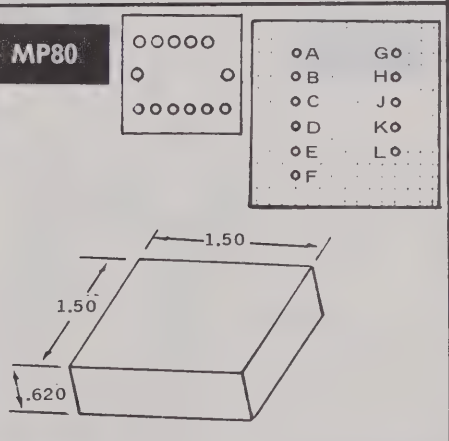
MP78



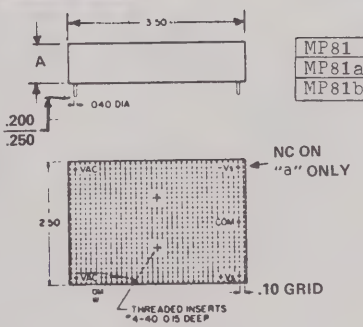
MP79



MP80

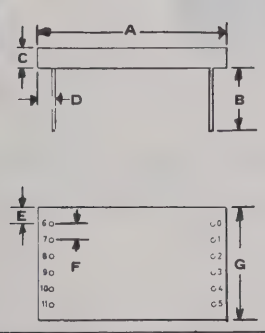


MP81



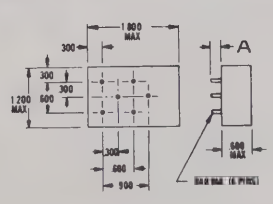
	A
MP81	1.25
MP81a	1.25
MP81b	.875

MP82



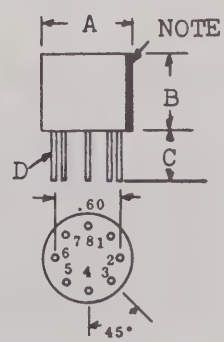
	A	B	C	D	E	F	G
MP82	1.60	1.00	.190	.152	.157	.095 .105	.815
MP82a	2.62	.250 MIN	.625		.312	.500	3.12

MP83



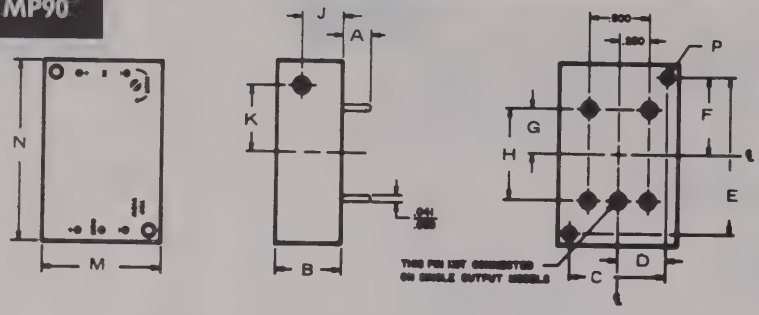
	A
MP83	.160
MP83a	.200 MIN

MP86



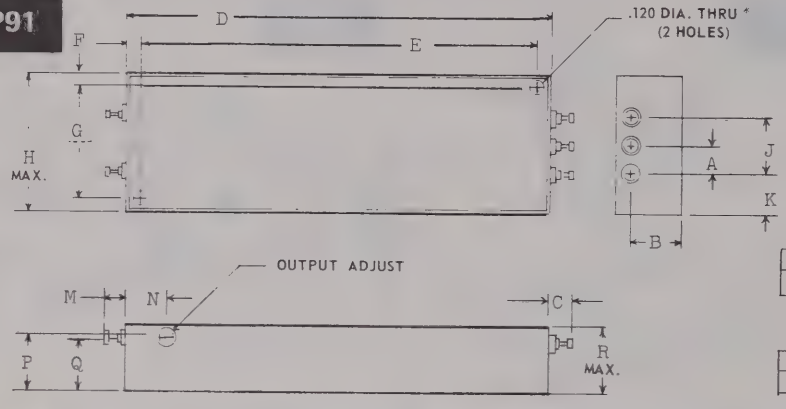
	A	B	C	D	NOTE
MP86	.700	.600			SQUARE
MP86a	.750	.437	.500	.031	CHAMFERED

MP90



	A	B	J	D	E	F	G	H	J	K	M	N	P	REMARKS
MP90	.230	.550	.800	.400	1.30	.650	.375	.750	.340	.550	1.00	1.50	.093	
MP90a	.175	.300												HOLES OMITTED
MP90b	.200	.600	.630	.630	1.08	1.08	.475	.975	.350		1.50	2.42	.120	

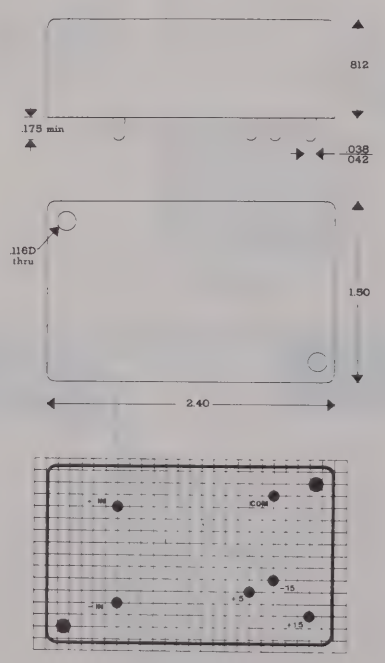
MP91



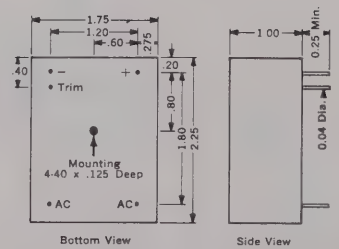
	A	B	C	D	E	F	G	H
MP91		.480	.200	3.81	3.56	.120	1.00	1.25
MP91b	.250	.480		3.81	3.56	.120	1.00	1.25

	J	K	M	N	P	Q	R
MP91	.500	.380	.170	.380	.500	.480	.620
MP91b	.500	.380	.170	.380	.500	.480	

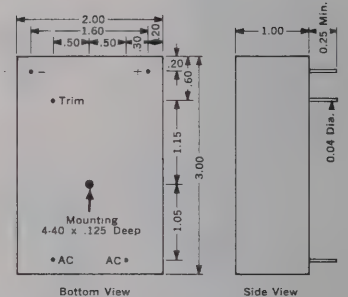
MP92



MP93

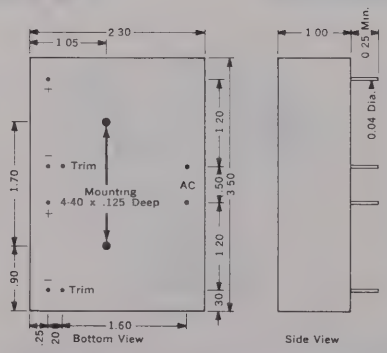


MP94

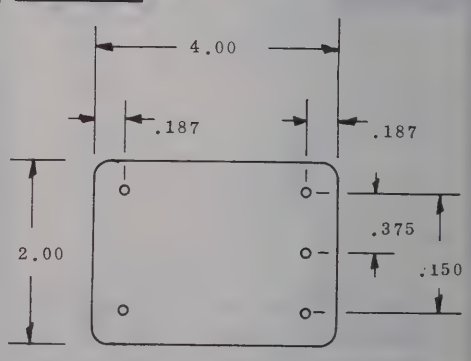


MP94a - TRIM PIN OMITTED.

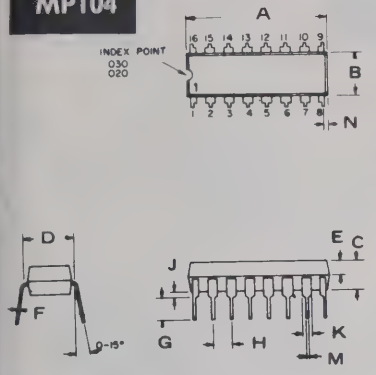
MP95



MP98



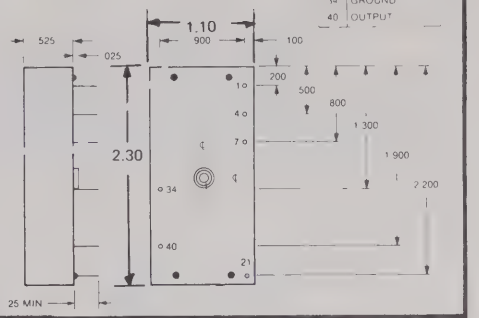
MP104



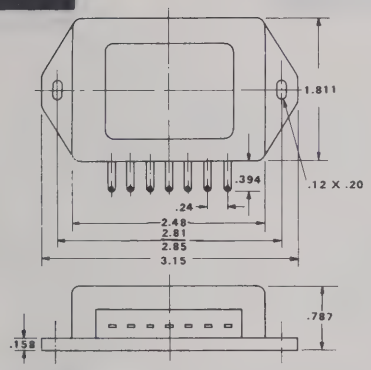
	A	B	C	D	E	F	G	H	J	K	M	N
MP104	.750 .770	.240 .260	.150 .170	.290 .310	.065 .085	.008 .012	.100 MIN	.100 TYP	.020 MIN	.040 .060	.015 .023	.022 .038
MP104a	.740 .780	.240 .270	.135 .165	.290 .325		.008 .012	.115 .135	.090 .110		.057 .063	.015 .020	.015 .035
MP104b	.740 .770	.240 .280	.115 .125	.290 .310		.008 .015	.120 MIN	.090 .110	.015 MIN	.028 .036	.015 .023	

MP105

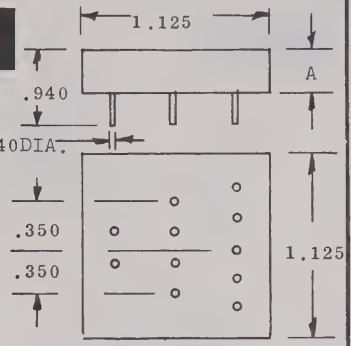
PIN NO	FUNCTION
1	+ 22.0 V SUPPLY
4	+ INPUT (A)
7	- INPUT (B)
21	22.0 V SUPPLY
34	GROUND
40	OUTPUT



MP107

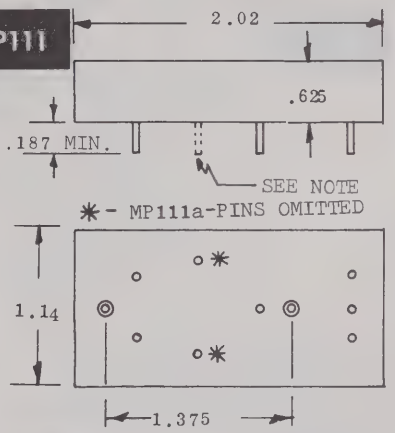


MP109

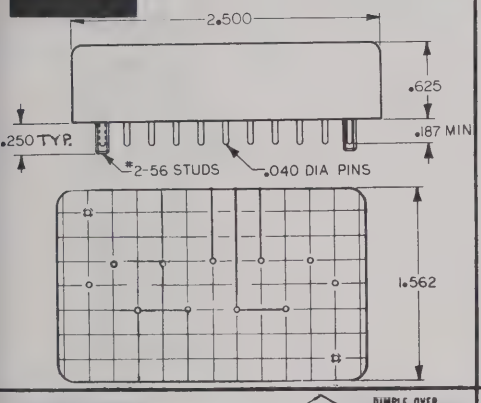


	A
MP109	.500
MP109a	.375

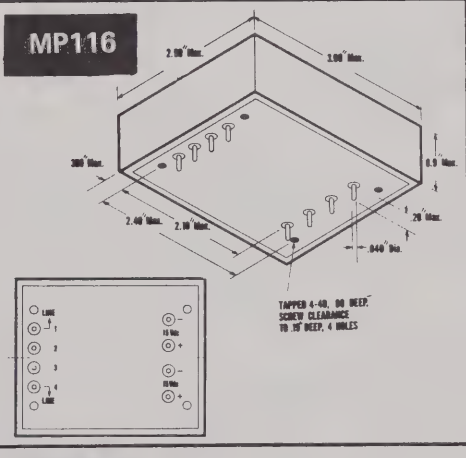
MP111



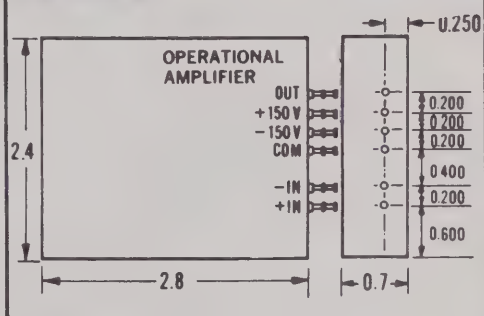
MP112



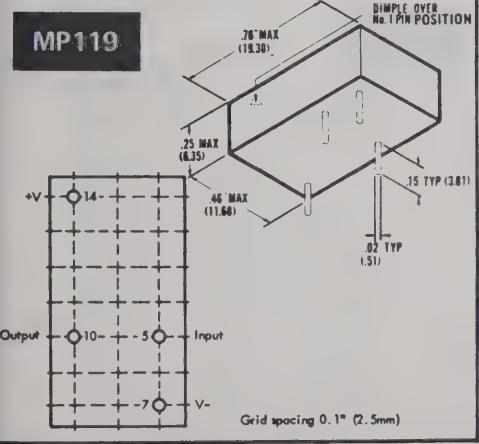
MP116



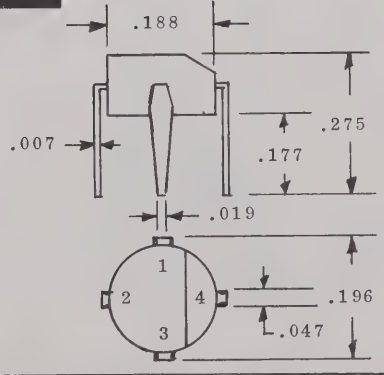
MP117



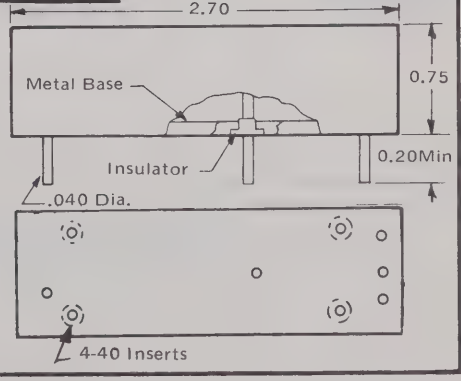
MP119



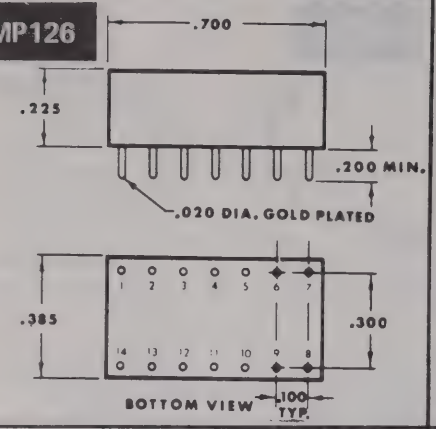
MP120



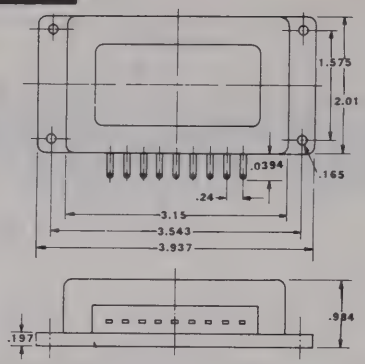
MP124



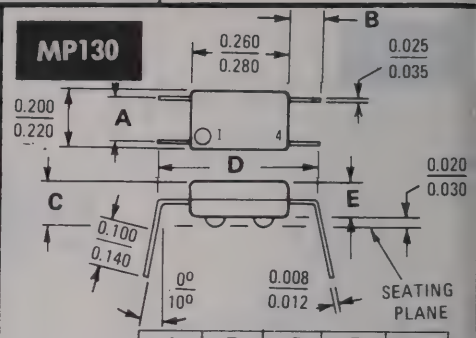
MP126



MP129

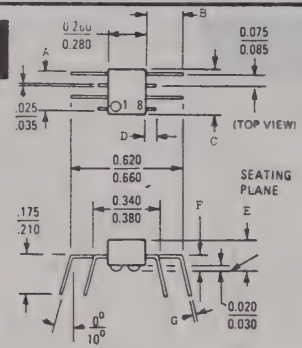


MP130



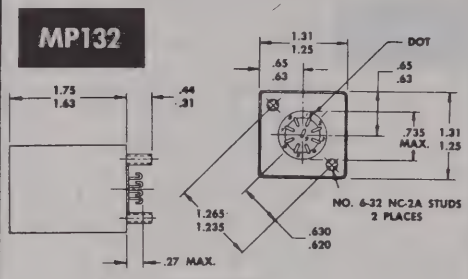
	A	B	C	D	E
MP130	.150 .165	.035 .060	.135 .160	.340 .380	.110 .135
MP130a	.145 .155	.040 .060	.135 .155	.350 .390	.110 .130

MP131



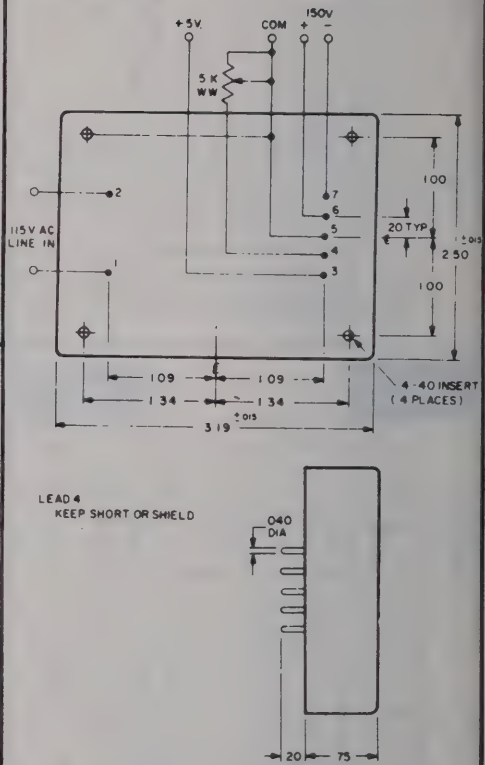
	A	B	C	D	E	F	G
MP131	.260 .280	.175 .195	.320 .340	.035 .055	.140 .150	.070 .080	.008 .016
MP131a	.290 .310	.165 .195	.290 .310	.020 .050	.135 .160	.075 .095	.008 .012

MP132

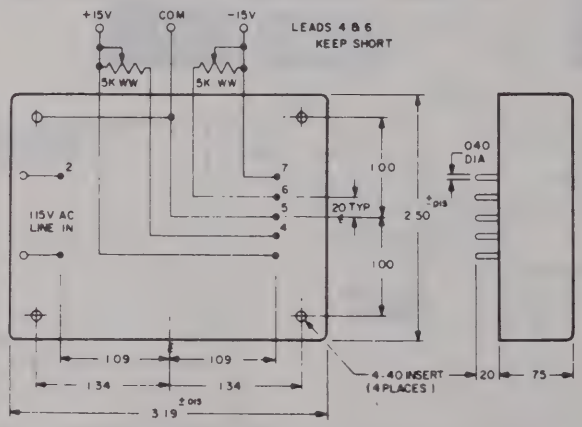


1. DC INPUT SIGNAL
2. 10 VOLTS
3. NO CONNECTION
4. COMMON
5. PULSE OUTPUT FREQUENCY
6. 10 VOLTS
7. RAMP OUTPUT FREQUENCY
8. NO CONNECTION
9. NO CONNECTION

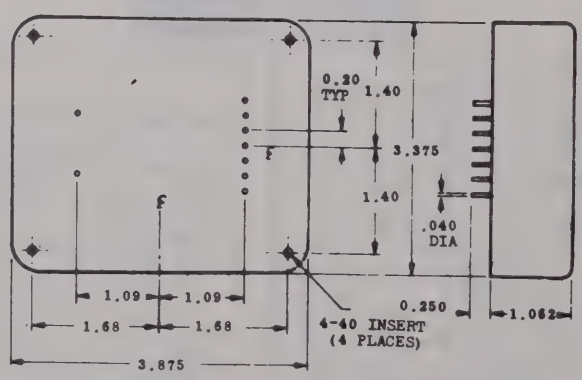
MP133



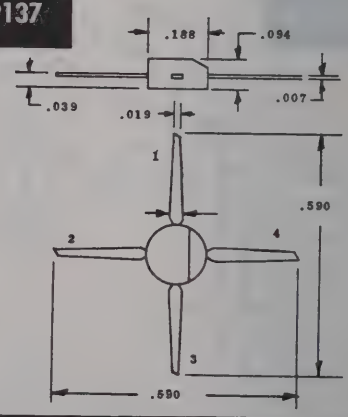
MP134



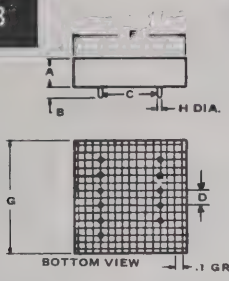
MP135



MP137

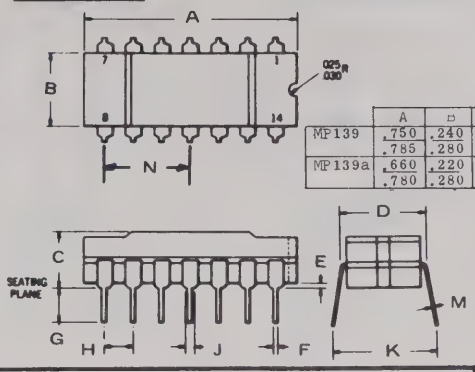


MP138



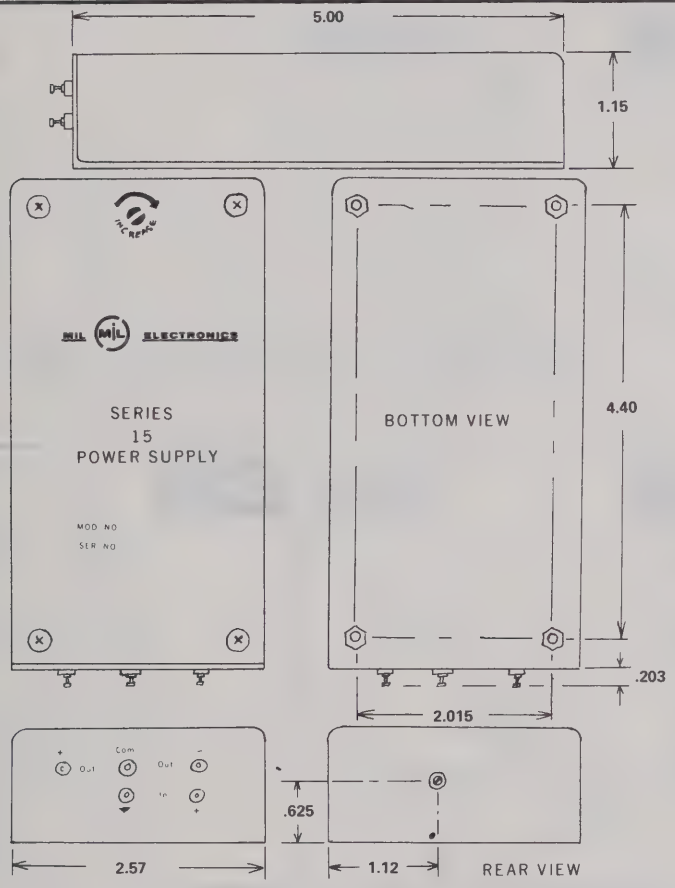
	A	B	C	D	F	G	H
MP138	.620	.200 .250			1.50	1.50	.040
MP138a	.400	.200 MIN	.800	.200	1.50	1.50	.040

MP139

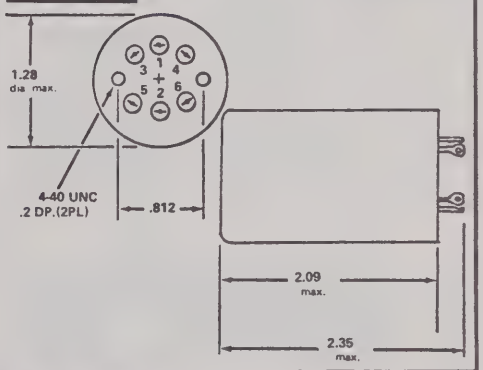


	A	B	C	D	E	F	G	H	J	K	M	N
MP139	.750 .785	.240 .280	.200 MAX	.290 .310	.015 MIN	.016 .020	.100 .160	.090 .110	.027 .037	.375 TYP	.009 .011	
MP139a	.660 .780	.220 .280	.200 MAX	.325 MAX		.015 .023	.100 MIN		.030 .070	.290 .310	.008 .015	.290 .310

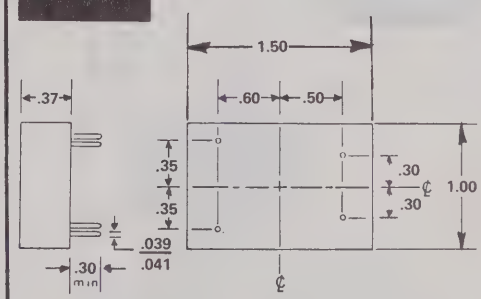
MP140



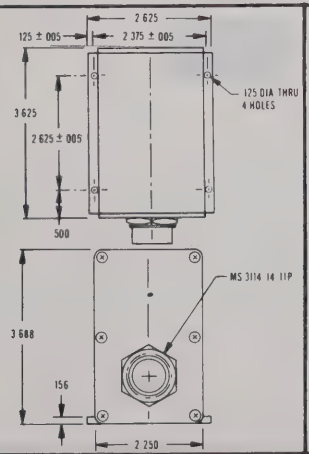
MP141



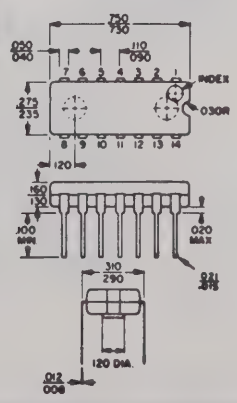
MP142



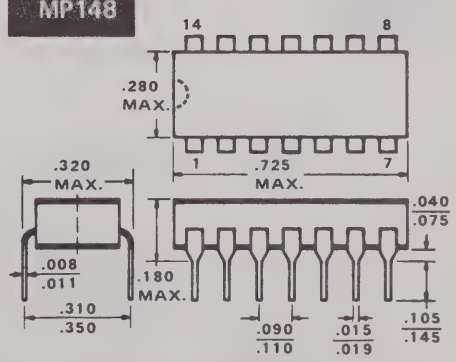
MP145



MP147



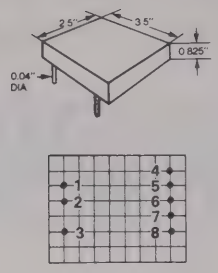
MP148



14. OUTLINE DRAWINGS

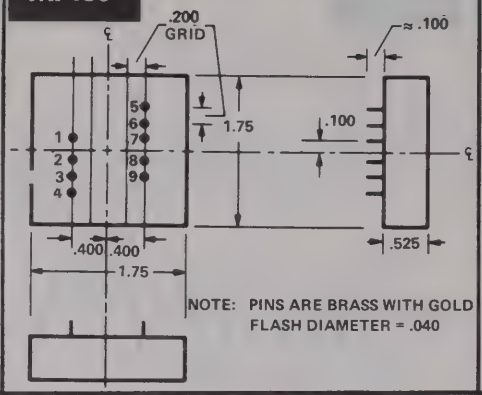
IN DRAWING NUMBER SEQUENCE

MP149



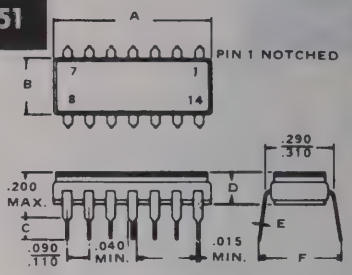
	A	B	C	D	REMARKS
MP149	2.5	3.5	.825	.040	PIN 5 OMITTED
MP149a	2.5	3.5	.825	.040	

MP150



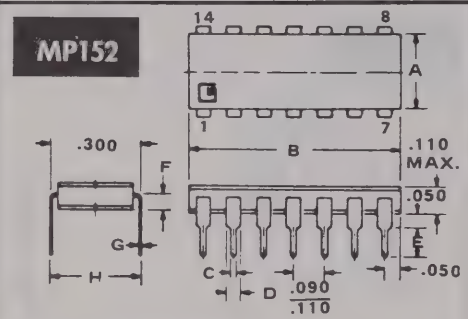
NOTE: PINS ARE BRASS WITH GOLD FLASH DIAMETER = .040

MP151



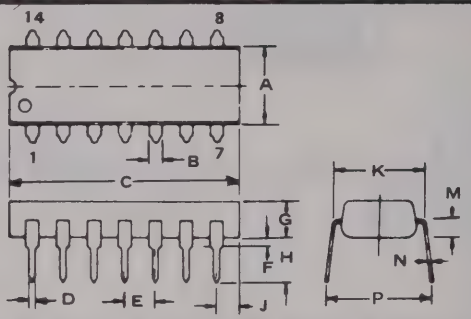
	A	B	C	D	E	F
MP151	.685 .715	.245 .275	.100 MIN	.145 MAX	.009 .011	.375 MAX
MP151a	.785 MAX	.280 MAX	.125			.375 MAX
MP151b	.715	.270 MAX	.125 MIN		.008 .015	.300 .350

MP152



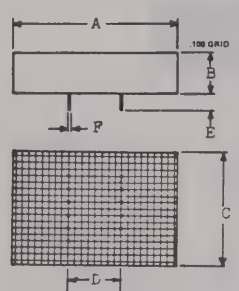
	A	B	C	D	E	F	G	H
MP152	.235 .265	.685 .715	.015 .020	.055 MAX	.125	.055	.006 .012	.290 .310
MP152a	.250 .265	.695 .730	.014 .020	.035 .050	.120 MIN		.008 .010	.325 .375

MP153



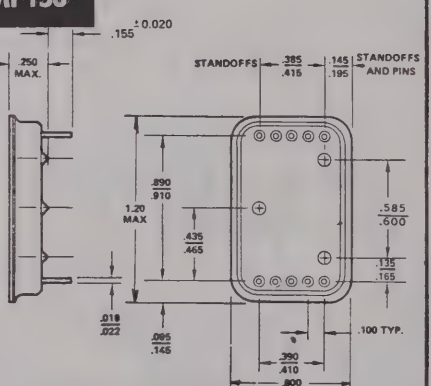
	A	B	C	D	E	F	G	H	J	K	M	N	P
MP153	.245 .250	.044 .052	.745 .755	.015 .021	.090 .110	.015 .035	.115 .125	.135 .165	.065 .085	.290 .310	.060	.010 .015	.325 .375
MP153a	.240 .280	.040 .050	.740 .770	.015 .023	.090 .110	.015 MIN	.160 MAX	.135 MIN		.290 .310	.120 MIN	.008 .015	.325 .375
MP153b	.250	.060 TYP	.760 TYP .765 MAX	.020 TYP	.092 .108	.040 TYP	.140 MAX	.170	.020	.300 NOM		.010 TYP	

MP155

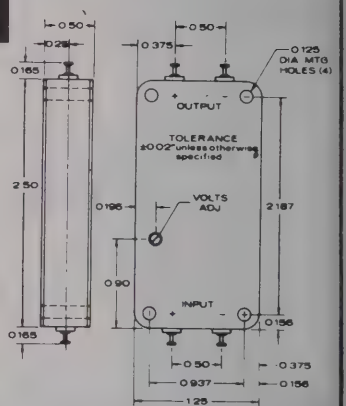


	A	B	C	D	E	F
MP155	2.50	.600	1.75		.200 .250	.038 .042
MP155a	3.07	.650	1.66	.800	.200	.040 .042

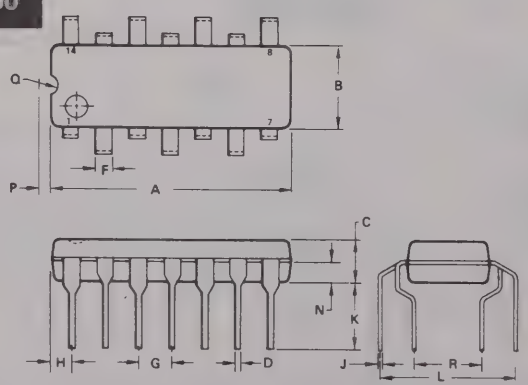
MP156



MP158

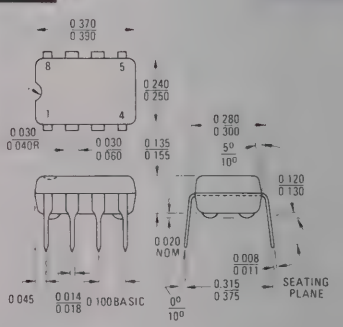


MP160



DIM	MILLIMETERS MIN	MILLIMETERS MAX	INCHES MIN	INCHES MAX
A	18.16	18.80	0.715	0.740
B	6.10	6.60	0.240	0.260
C	3.30	3.81	0.130	0.150
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	1.32	1.83	0.052	0.072
J	0.20	0.30	0.008	0.012
K	3.81	–	0.150	–
L	9.91	10.67	0.390	0.420
N	1.02	1.52	0.040	0.060
P	0.13	0.38	0.005	0.015
Q	0.51	0.76	0.020	0.030
R	4.83	5.59	0.190	0.220

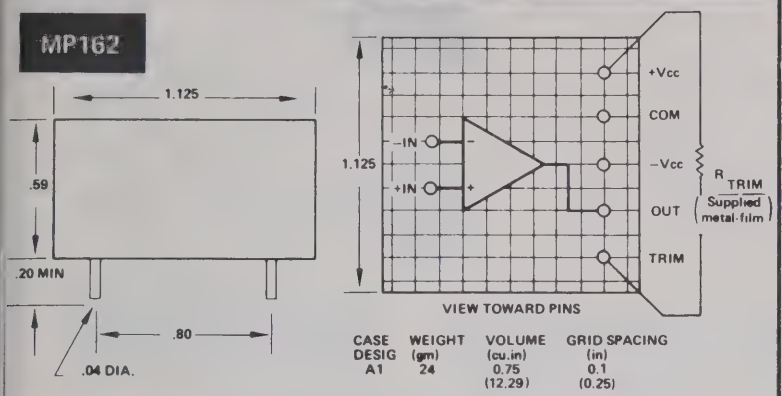
MP161



14. OUTLINE DRAWINGS

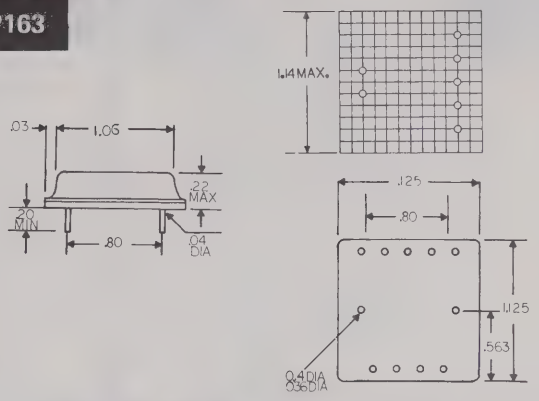
IN DRAWING NUMBER SEQUENCE

MP162

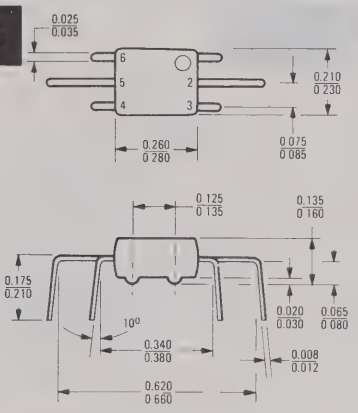


CASE DESIG	WEIGHT (gm)	VOLUME (cu.in)	GRID SPACING (in)
A1	24	0.75 (12.29)	0.1 (0.25)

MP163

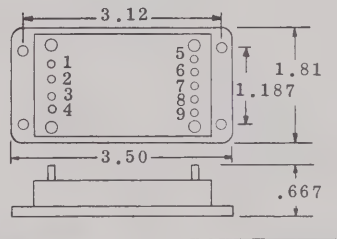


MP166

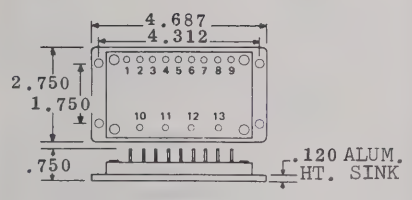


MP167

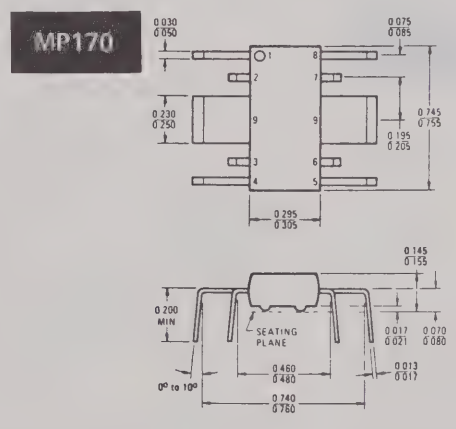
	A	PINS
MP167		OMIT PINS 1,4
MP167a	.040	



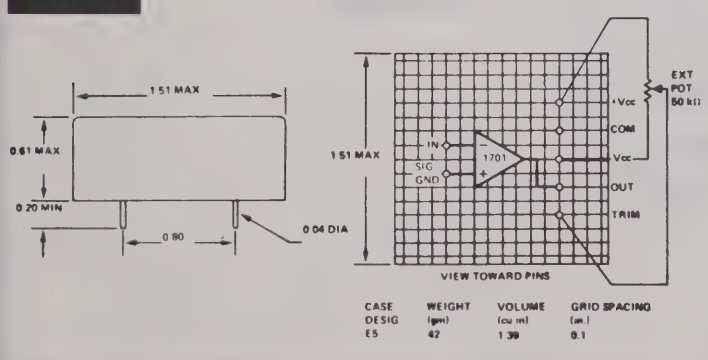
MP168



MP170

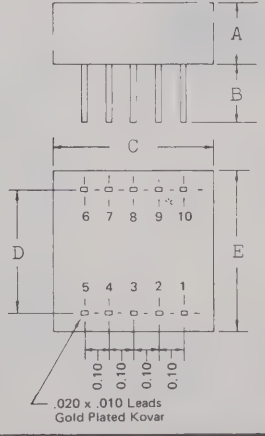


MP172



CASE DESIG	WEIGHT (gm)	VOLUME (cu in)	GRID SPACING (in.)
E5	42	1.39	0.1

MP174

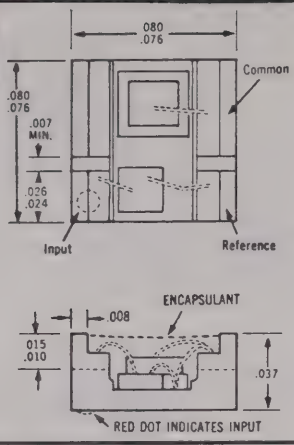


	A	B	C	D	E	PINS OMITTED
MP174	.250		.650	.500	.650	
MP174a	.245	.500 MIN	.600	.400	.600	5,6,9,10

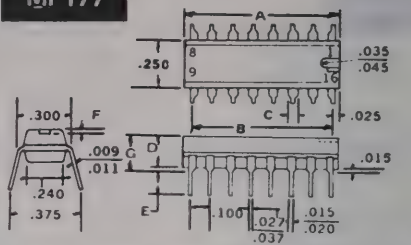
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MP175



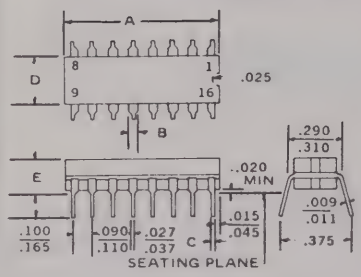
MP177



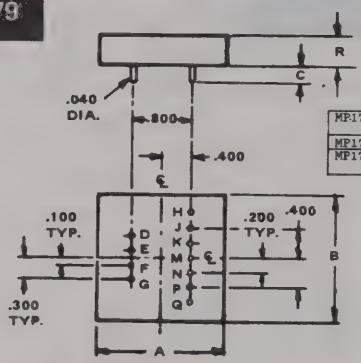
	A	B	C	D	E	F	G
MP177	.750	.700	.045 .055	.130	.135	.030	
MP177a	.745 .760		.045 .065		.100 .150	.010 .020	.190 MAX
MP177b	.770	.700	.050		.110		.185 MAX

MP178

	A	B	C	D	E
MP178	.725 .735	.045 .055	.010 .016	.265 .291	.170 .219
MP178a	.755 .785	.045 .065	.016 .020	.265 .291	.170 .219
MP178b	.750 .785	.045 .065	.016 .020	.245 .271	.200 MAX
MP178c	.745 .785	.030 .034	.018 .020	.243 .263	.145 .188

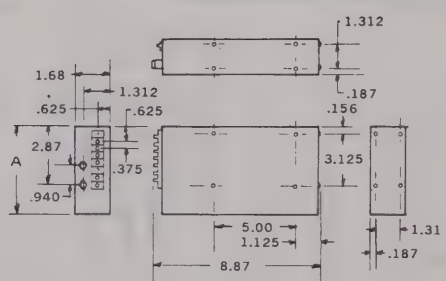


MP179



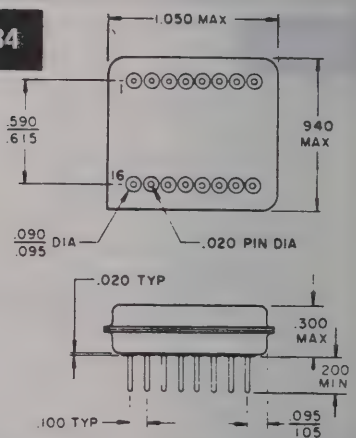
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	R
MP179	1.50	1.50	.200 MIN	11	9	8	10	1	2	3	4	5	6	7	.400
MP179a	1.75	1.75	.250 MIN	OS	IN	G	S	NA	15	COM	-15	OUT	SP	NA	.400
MP179b	1.50	1.50	2.00 MIN	8	9	10	11	1	2	3	4	5	6	7	.500 MAX

MP180

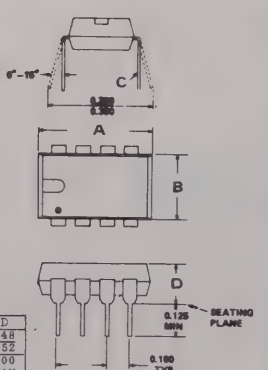


	A
MP180	4.687
MP180a	3.812

MP184

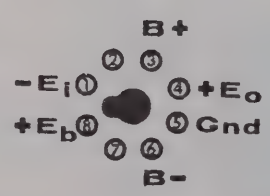


MP189

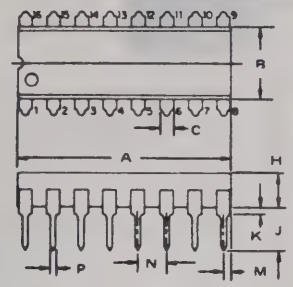


	A	B	C	D
MP189	.370 .390	.248 .252	.009 .011	.148 .152
MP189a	.450 MAX	.240 .280	.008 .015	.200 MAX
MP189b	.374 MAX	.248 MAX	.010	.158 MAX

MP190

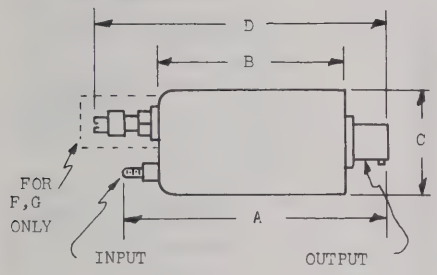


MP192



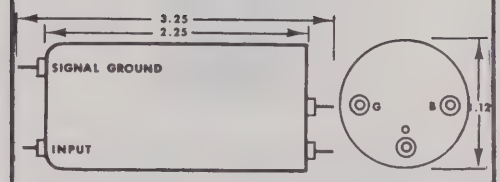
	A	B	C	D	E	F	G	H	J	K	M	N	P
MP192	.745 .755	.245 .250	.044 .052	.290 .310	.060	.010 .015	.325 .375	.115 .125	.135 .165	.015 .035	.015 .035	.090 .110	.015 .021
MP192a	.744 .860	.241 .251	.044 .055	.324 MAX		.008 .014	.290 .375	.170	.125 .150	.014 MIN		.100	.014 .024
MP192b	.745 .755	.245 .252	.044 .052	.290 .310	.057 .068	.010 .015	.325 .375	.115 .125	.135 .165	.015 .035	.065 .085	.090 .110	.015 .021

MP193

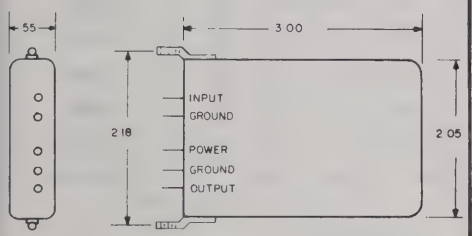


	A	B	C	D	PIN NOS.
MP193	3.32 MAX	2.25	1.12		6
MP193a	3.32 MAX	2.25	1.12		4
MP193b	3.75 MAX	3.00	1.12		6
MP193c	3.75 MAX	3.00	1.12		4
MP193d	4.31 MAX	3.59	1.75		6
MP193e	4.00	2.25	1.12		6

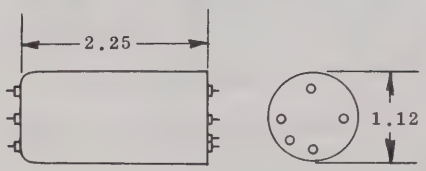
MP194



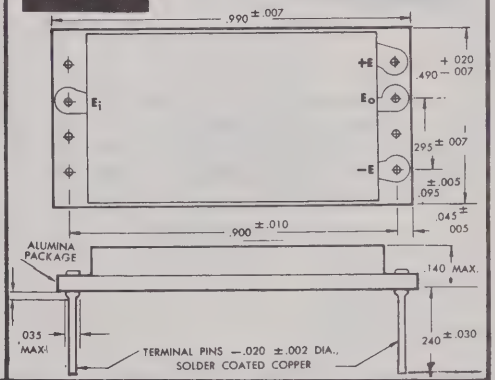
MP195



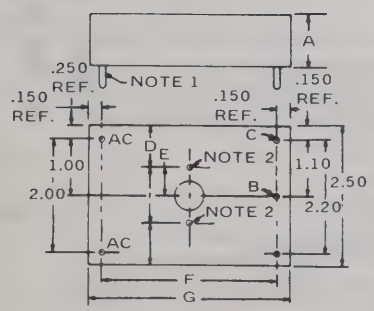
MP196



MP197



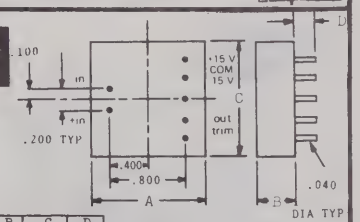
MP198



	A	B	C	D	E	F	G
MP198	.875	COM	-VDC	.750	.500	3.2	3.5
MP198a	1.25	N.C	-VDC	.750	.500	3.2	3.5
MP198b	.875	N.C	-VDC	.750	.500	3.2	3.5
MP198c	1.25	COM	-VDC	.750	.500	3.2	3.5
MP198d	1.25	COM	-VDC	.250	.100		2.25
MP198e	1.25	N.C	COM	.250	.100		2.25
MP198f	.875	N.C	COM	.750	.500	3.2	3.5
MP198g	1.25	N.C	COM	.750	.500	3.2	3.5
MP198h	1.56	N.C	COM	.750	.500	3.2	3.5
MP198j	1.56	COM	-VDC	.750	.500	3.2	3.5

NOTES:
1. PINS .040 MAX. 21g MIN.
2. TWO MOUNTING INSERTS
   * 4-40 x .10 dp MIN.

MP199

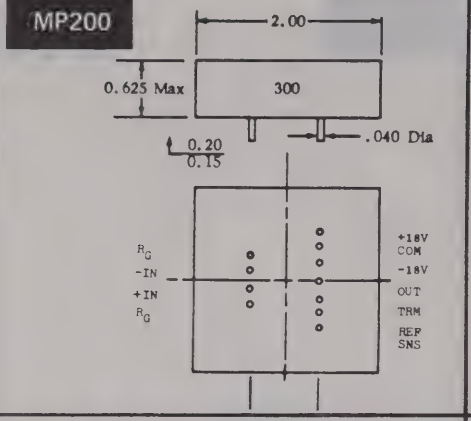


	A	B	C	D
MP199	1.50	.500	1.50	.200 TYP
MP199a	1.12	.500	1.12	.200 TYP
MP199b	1.50	.400	1.50	.200 TYP
MP199c	2.70 MAX	.550 MAX	1.50 MAX	.250 MIN
MP199d	1.12	.040	1.12	.200 MIN
MP199e	1.00	.500	1.00	.200
MP199f	1.12	1.12	.562	.200
MP199g	1.50	.625	1.125	.200 TYP
MP199h	1.12	.400 MAX	1.12	.200 MIN

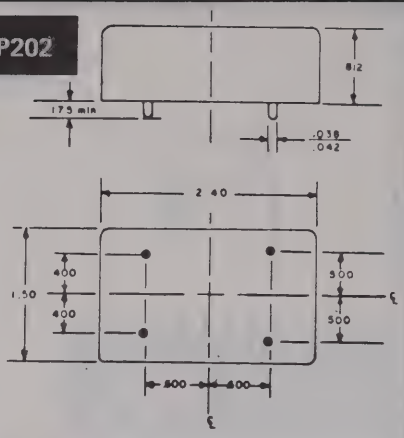
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

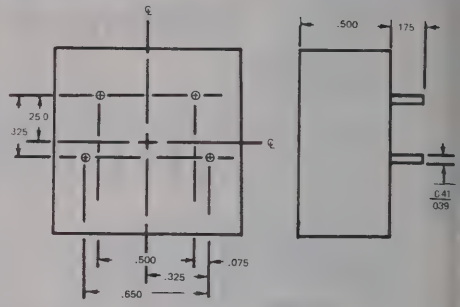
MP200



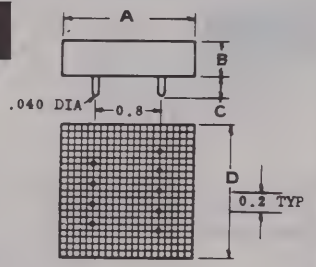
MP202



MP203

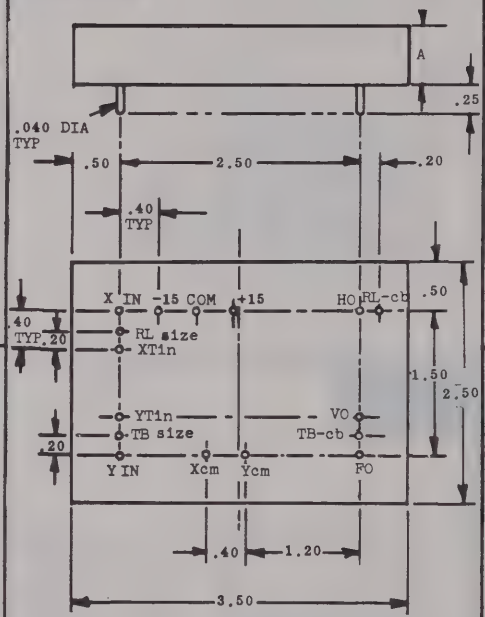


MP204



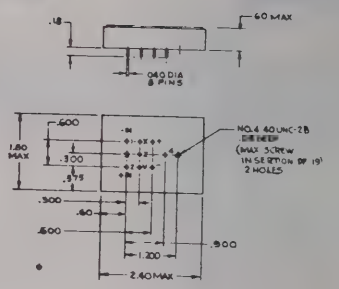
	A	B	C	D	NOTES
MP204	1.75	.400	.220 MAX	1.75	NONE
MP204a	1.50	.600	.200 MIN	1.50	CHAMFERED EDGES
MP204b	2.00	.600	.150	2.00	
MP204c	1.12	.400		1.12	NONE

MP206

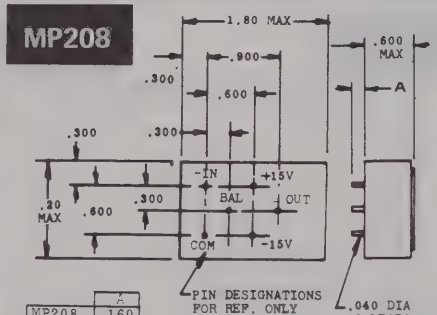


	A
MP206	1.000
MP206a	.625
MP206b	.870

MP207

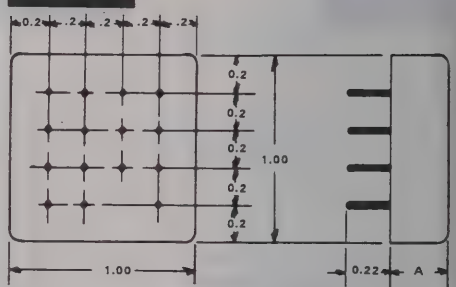


MP208



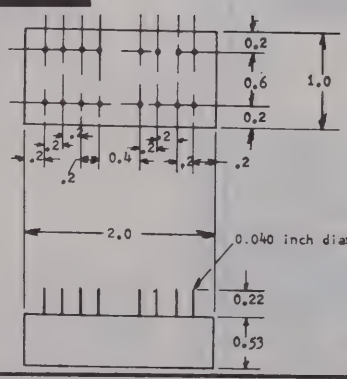
	A
MP208	.160 MIN
MP208a	.180 MIN
MP208b	.200 .250

MP209

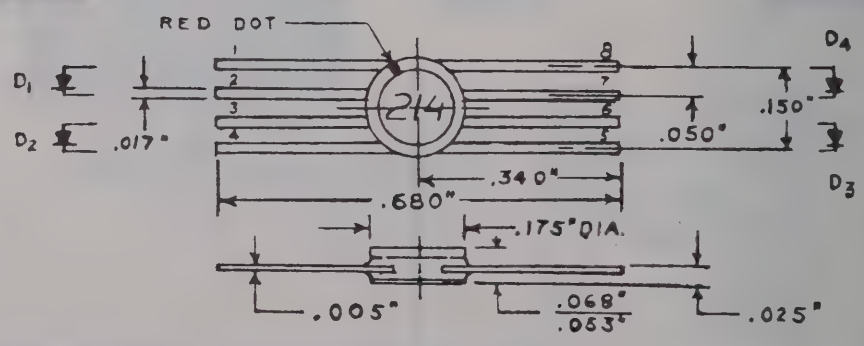


	A
MP209	.310
MP209a	.500

MP210



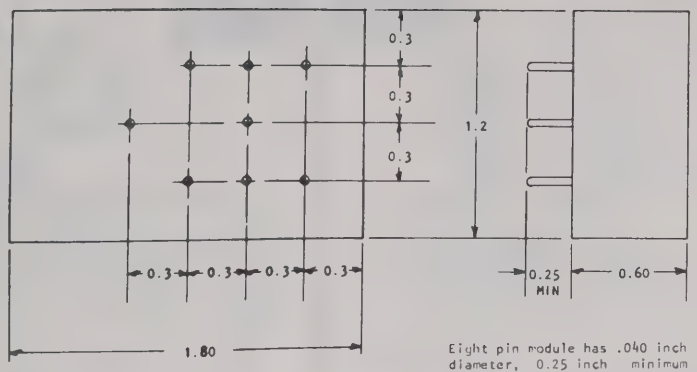
MP212



14. OUTLINE DRAWINGS

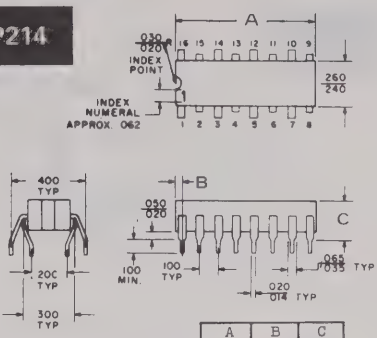
IN DRAWING NUMBER SEQUENCE

MP213



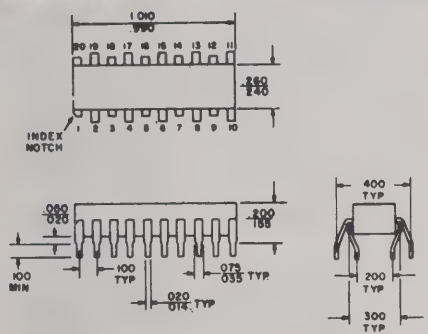
Eight pin module has .040 inch diameter, 0.25 inch minimum length pins.

MP214

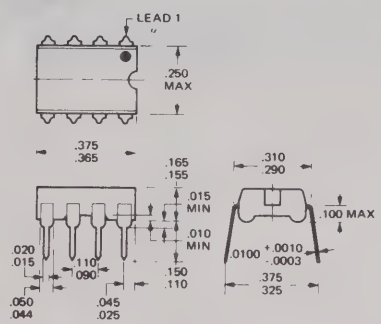


	A	B	C
MP214	.745 .785	.015 .060	.155 .200
MP214a	.870 MAX	.060 .090	.145 .155

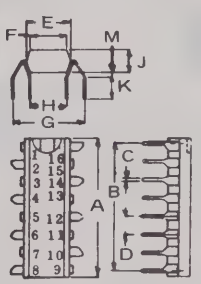
MP215



MP216

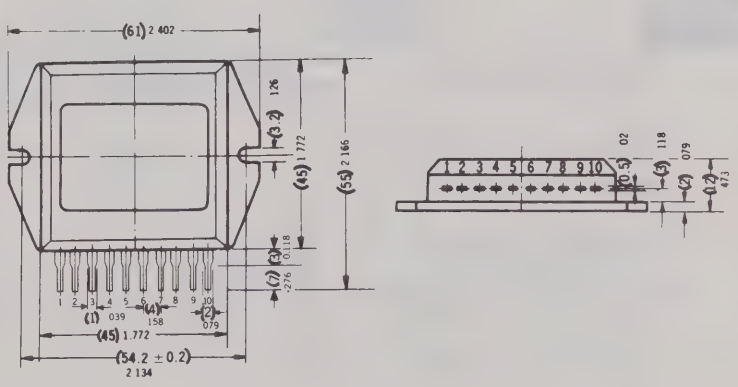


MP217

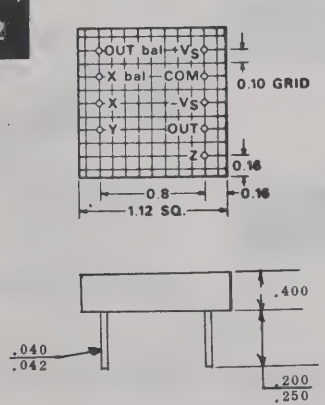


	A	B	C	D	E	F	G	H	J	K	M
MP217	.787 MAX	.680	.015	.100	.255 MAX	.210	.400	.200	.129	.125	.019
MP217a	.779 .787	.700	.017	.100			.391 .405	.191 .206	.161 MAX	.110 MIN	
MP217b	.745 .785		.017 .021	.098 .102	.243 .263	.243 .263	.400	.200		.124 .140	.075

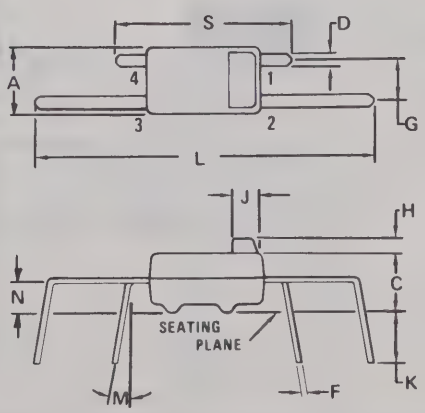
MP219



MP222

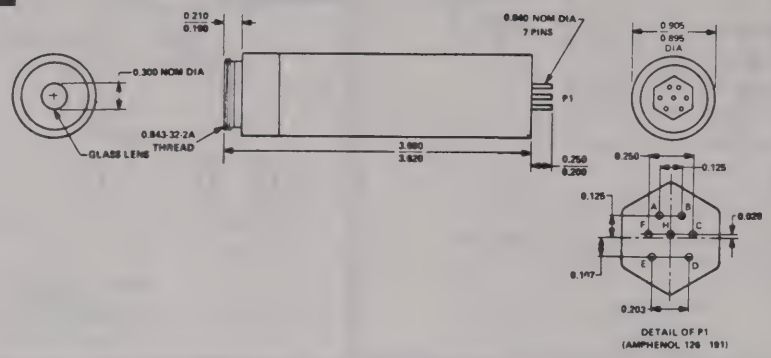


MP223

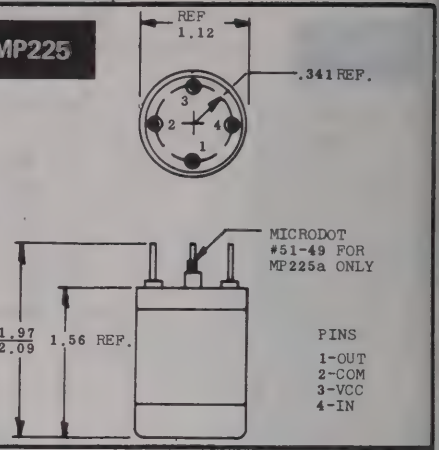


DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	3.30	3.81	0.130	0.150
C	3.43	3.94	0.135	0.155
D	0.64	0.89	0.025	0.035
F	0.20	0.30	0.008	0.012
G	1.88	2.18	0.074	0.086
H	0.64	0.89	0.025	0.035
J	1.50	1.75	0.059	0.069
K	2.92	3.18	0.115	0.125
L	15.75	16.76	0.620	0.660
M	–	10^0	–	10^0
N	1.78	2.03	0.070	0.080
S	8.64	9.65	0.340	0.380

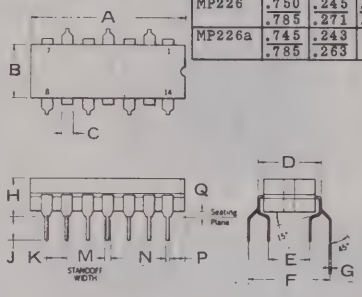
MP224



MP225

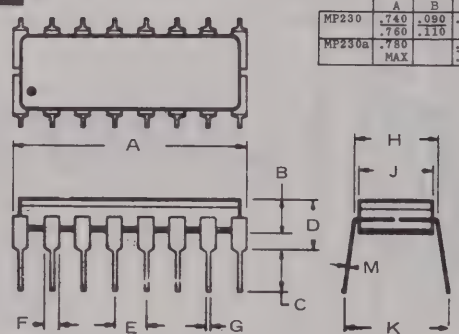


MP226



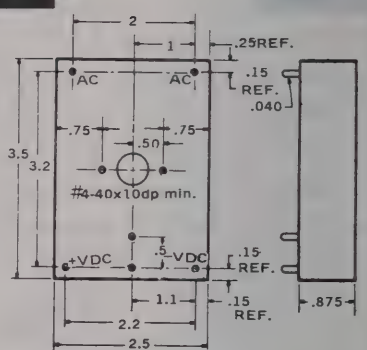
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q
MP226	.750 .785	.245 .271	.045 .065	.325 MAX	.180 .220	.380 .420	.009 .011	.185 MAX	.118 .138	.090 .110	.027 .037	.016 .020	.065 .095	.015 MIN
MP226a	.745 .785	.243 .263		.300	.200	.400		.180 .230	.105 .125	.099 .101	.030 .034	.017 .021		

MP230

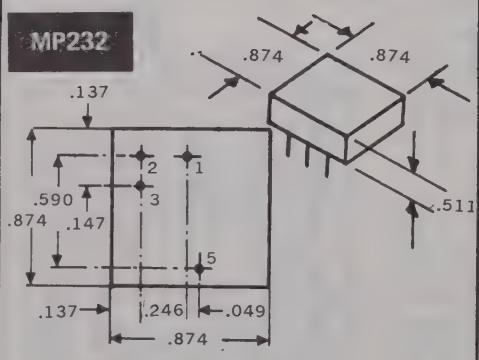


	A	B	C	D	E	F	G	H	J	K	M
MP230	.740 .760	.090 .110	.100 MIN	.200 MAX	.090 .110	.055	.019	.290 .310	.235 .265	.375 MAX	.009 .011
MP230a	.780 MAX		.105 .145	.180 MAX	.090 .110		.015 .019	.320 MAX	.265 MAX	.310 .350	.010

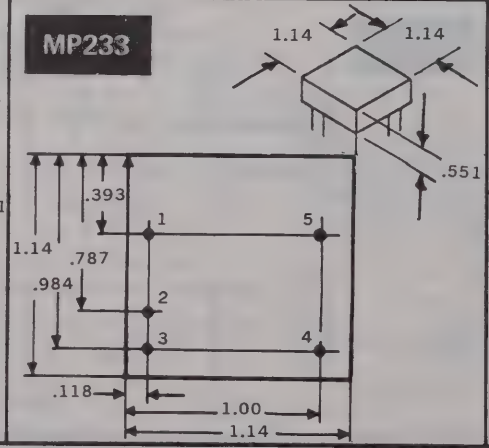
MP231



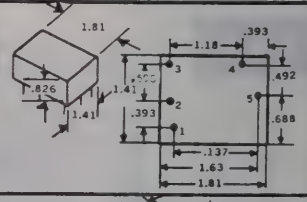
MP232



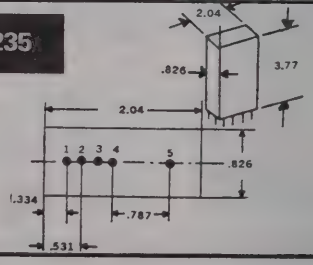
MP233



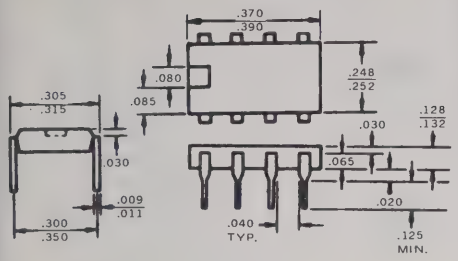
MP234



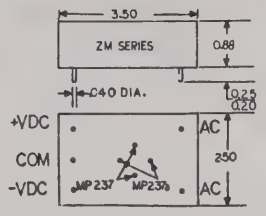
MP235



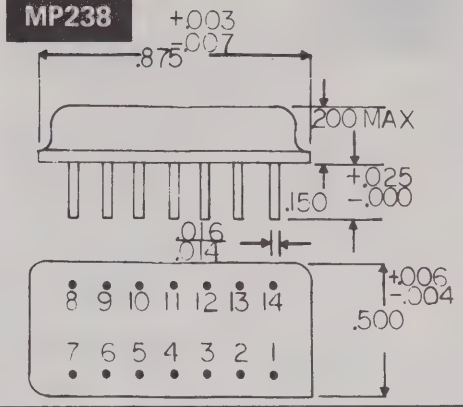
MP236



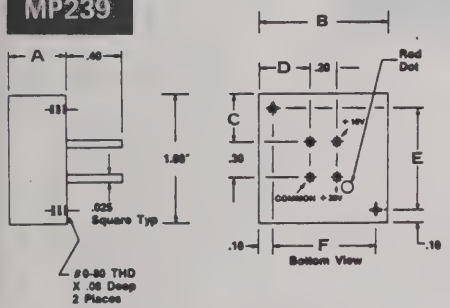
MP237



MP238

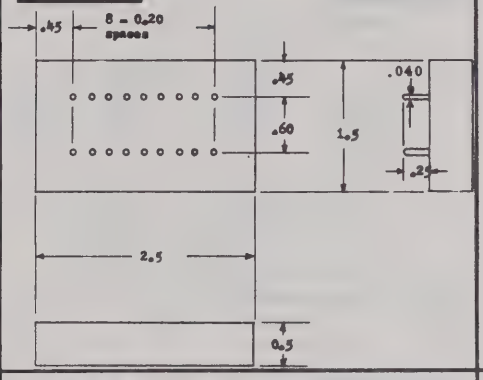


MP239

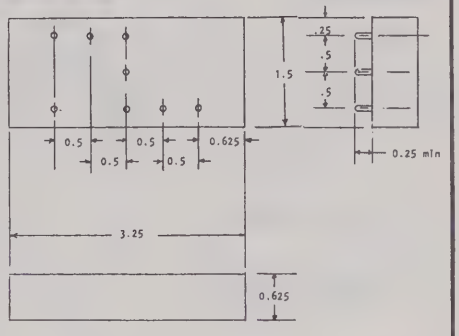


	A	B	C	D	E	F
MP239	.45	1.00	.35	.40	.800	.800
MP239a	.40	1.50	.60	.65	1.30	1.30

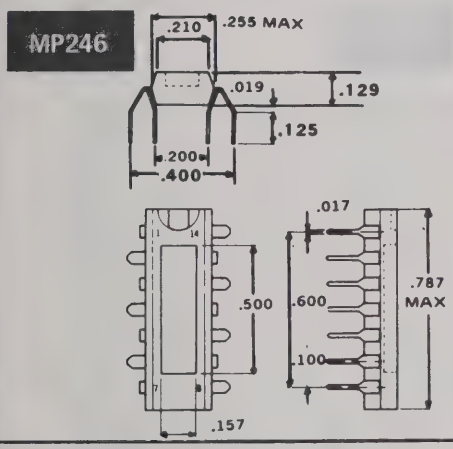
MP241



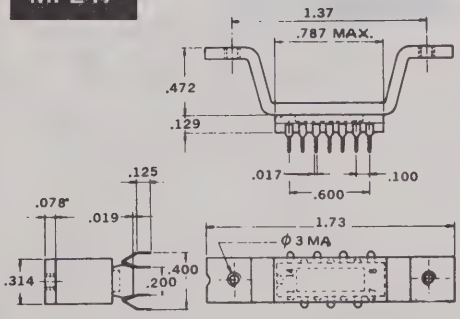
MP242



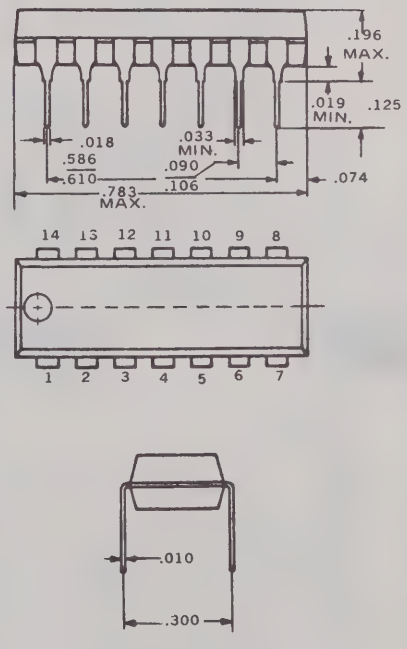
MP246



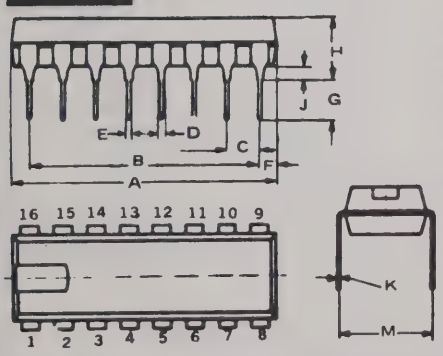
MP247



MP250

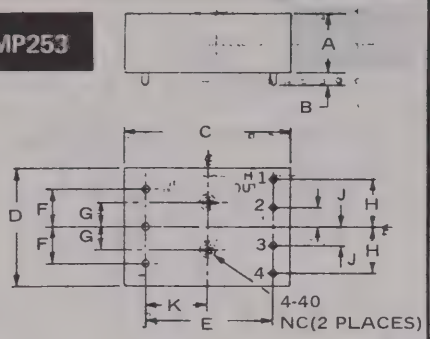


MP252



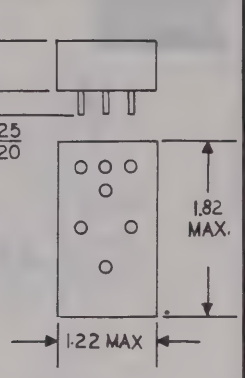
	A	B	C	D	E	F	G	H	J	K	M
MP252	.881 MAX	.690 .710	.090 .106	.033 MIN	.018	.031 MIN	.125	.196 MAX	.019 MIN	.010	.300
MP252a	.744 .858		.100		.011 .020		.185 MAX	.185 MAX	.012 MIN	.009 .012	.290 .375
MP252b	.850		.098		.019		.145	.185 MAX	.035	.011	.350
MP252c	.870 MAX	.700 TP	.100 TP	.033 MIN	.015 .021	.055 .095	.125 MIN	.200 MAX	.020 MIN	.008 .014	.300 .350
MP252d	.779 .787	.700	.100		.017	.039 .047	.122 .161	.181 MAX	.019 MIN		.299 .322
MP252e	.744 .860		.100		.015 .020		.125 .150	.185 MAX	.015 MIN	.007 .015	.290 .375
MP252f	.740 .760		.090 .110	.025 .037	.016 .020		.100 .150	.200 MAX	.015 NOM	.009 .011	.375 NOM

MP253

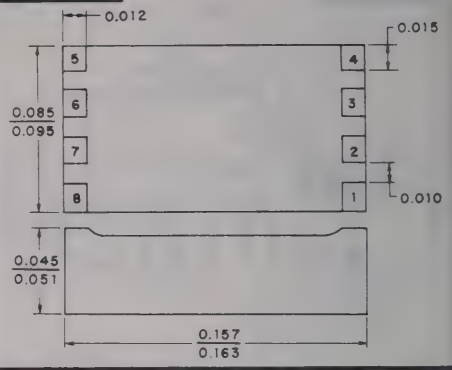


	A	B	C	D	E	F	G	H	J	K	REMARKS
MP253	1.27 MAX	.200 .250	3.52 MAX	2.52 MAX	2.70	.800	.500	1.00	.400	1.33	
MP253a	1.25	.200 MIN	3.50	2.50	3.50	1.10	.500			1.60	OMIT PINS 2 and 3

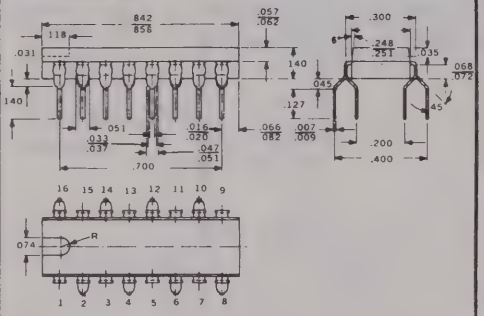
MP254



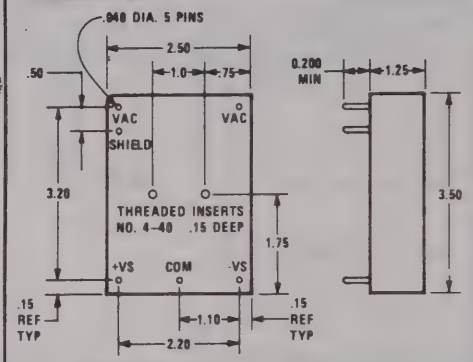
MP255



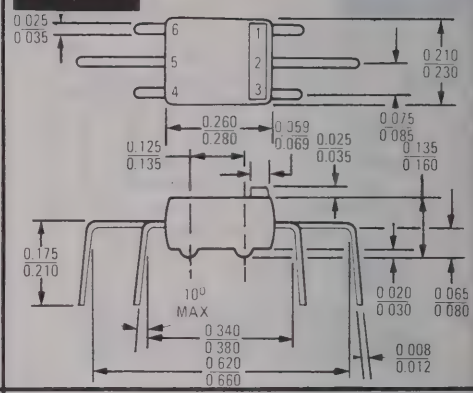
MP256



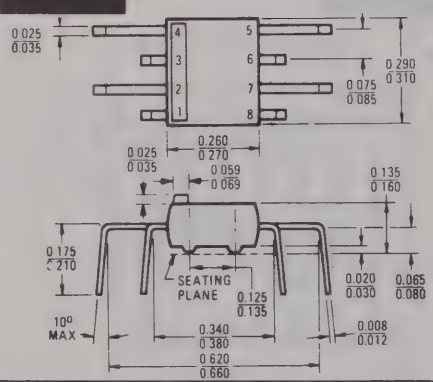
MP257



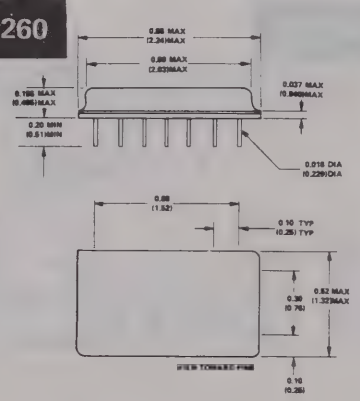
MP258



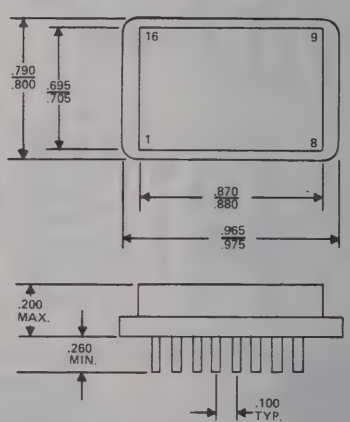
MP259



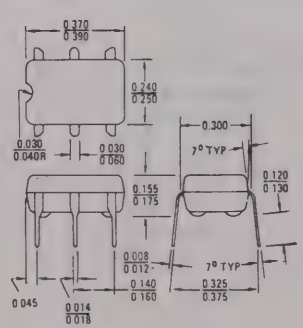
MP260



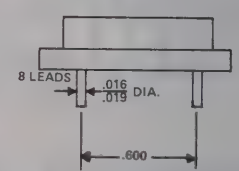
MP261



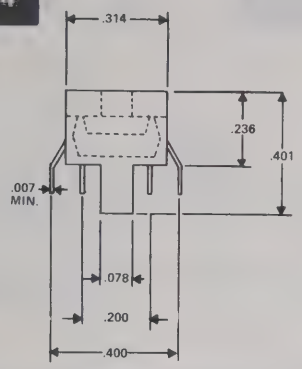
MP263

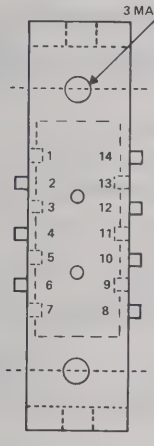


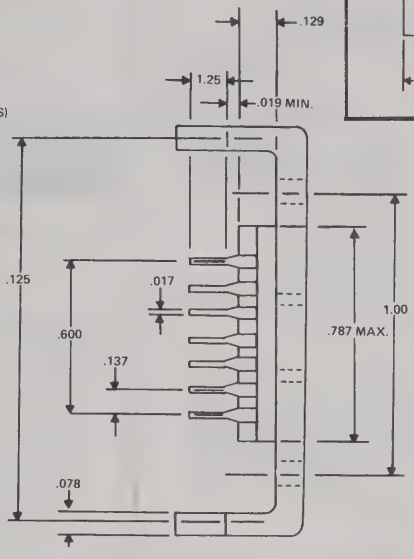
MP262



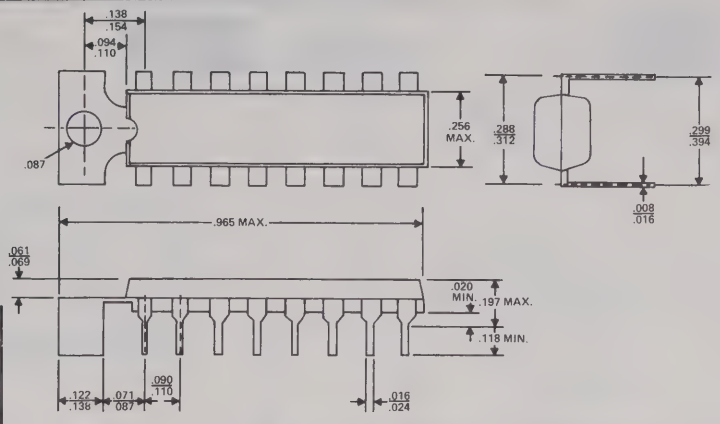
MP264



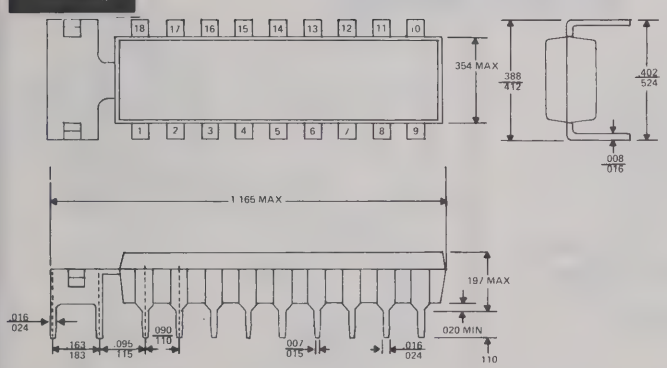




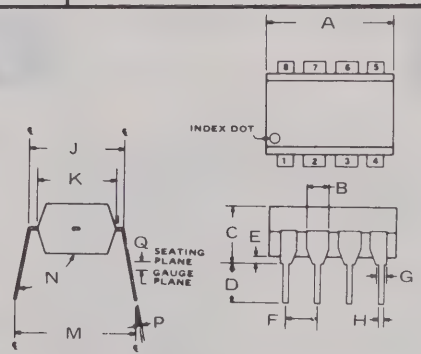
MP265



MP266

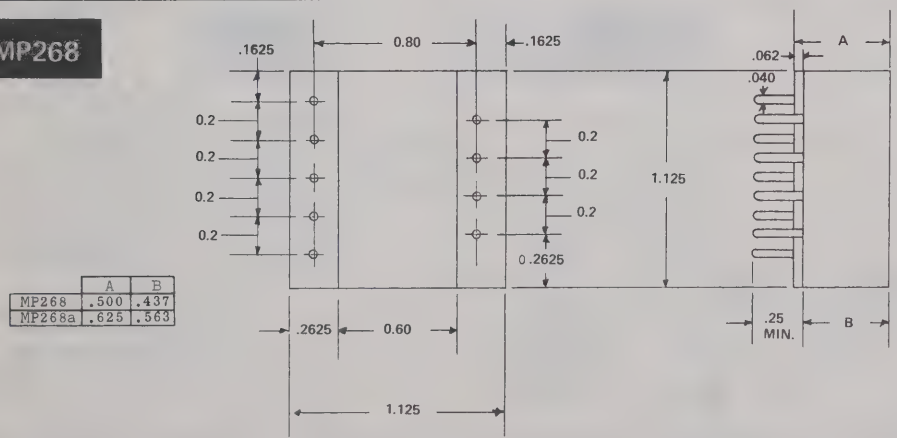


MP267



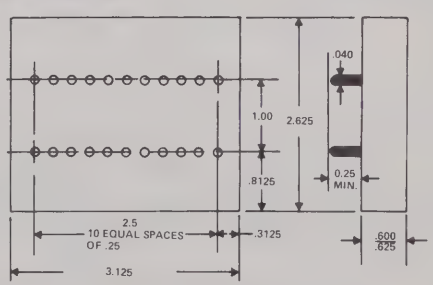
	A	B	C	D	E	F	G	H	J	K	M	N	P	Q	REMARKS
MP267	.390 .410	.070 MAX	.200 MAX	.125 MIN	.020 MIN	.100	.033 MIN	.015 .021	.300	.240 .260	.300 .350	.90° .105°	.008 .014	.000 .030	INDEX DOT
MP267a	.374 MAX					.100			.314 MAX	.248 MAX	.393 MAX				INDEX NOTCH

MP268

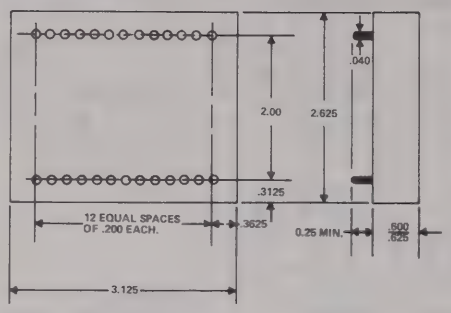


	A	B
MP268	.500	.437
MP268a	.625	.563

MP269

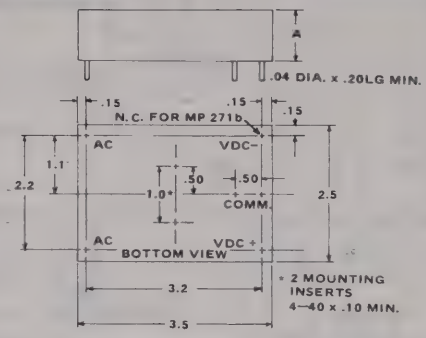


MP270



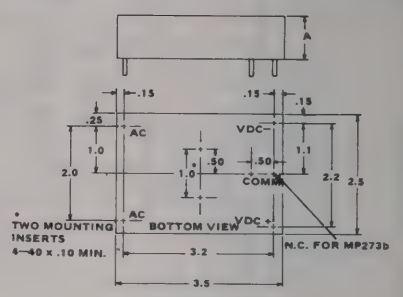
MP271

	A
MP271	.875
MP271a,b	1.25

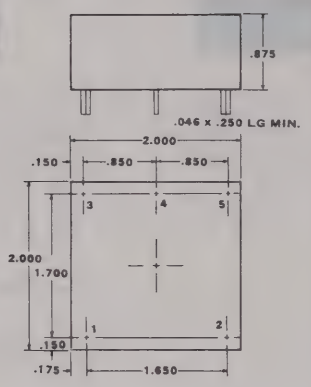


MP273

	A
MP273	.875
MP273a,b	1.25

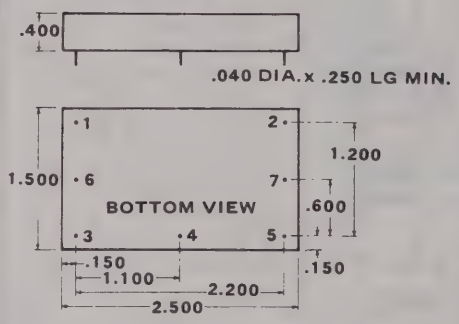


MP274



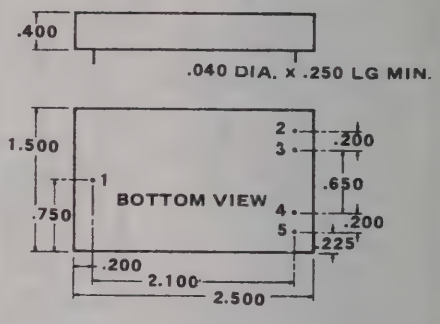
MP275

	PINS
MP275	OMIT PIN 6 and 7
MP275a	AS SHOWN

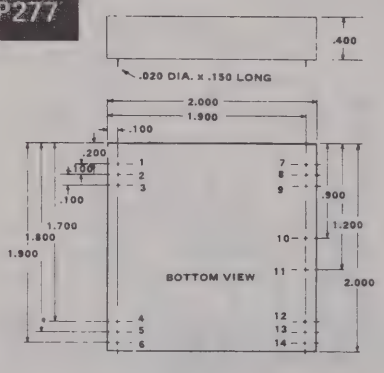


MP276

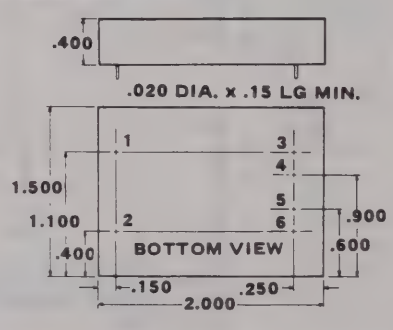
	PINS
MP276	OMIT PIN 3 and 4
MP276a	AS SHOWN



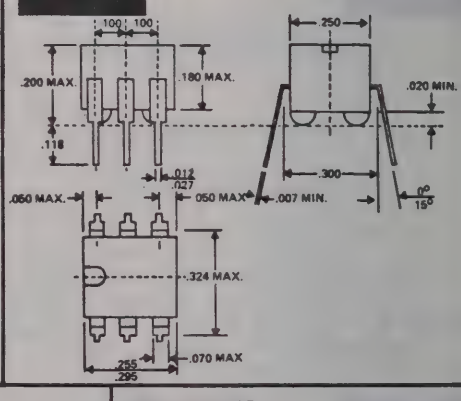
MP277



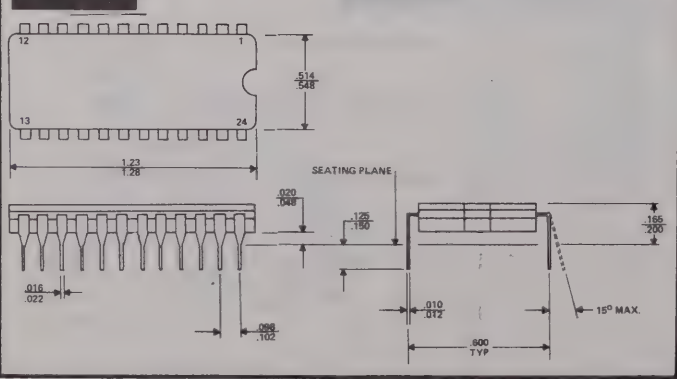
MP278



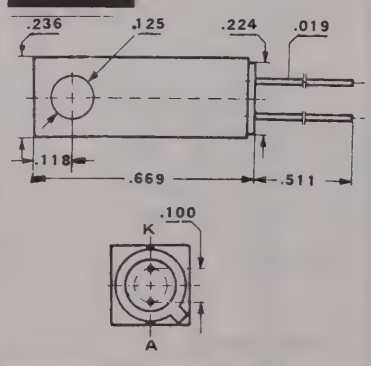
MP279



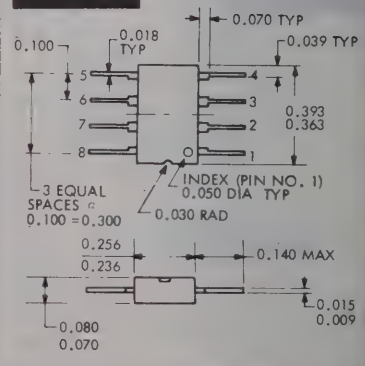
MP280



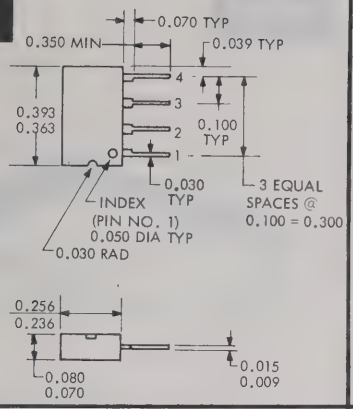
MP282



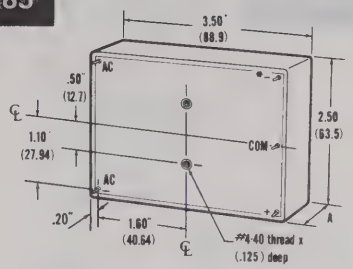
MP283



MP284



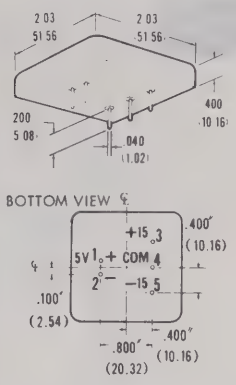
MP285



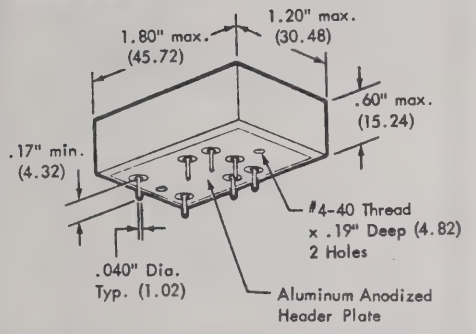
* Trim connection for Models 580, 581
Nc connection for Models 560, 561, 562.

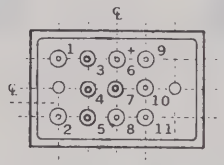
	A
MP285	.880
MP285a	1.25

MP286



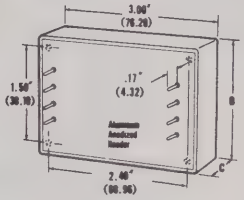
MP287

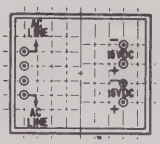

1.80" max. (45.72)
1.20" max. (30.48)
.60" max. (15.24)
.17" min. (4.32)
#4-40 Thread x .19" Deep (4.82) 2 Holes
.040" Dia. Typ. (1.02)
Aluminum Anodized Header Plate



	REMARKS
MP287	PINS 3,4 and 5 OMITTED
MP287a	PINS 9 and 11 OMITTED
MP287b	PINS 4,9 and 11 OMITTED
MP287c	PINS 3,4,5,9 and 11 OMITTED
MP287d	AS SHOWN

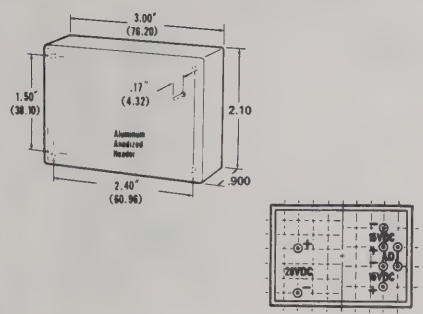
MP288



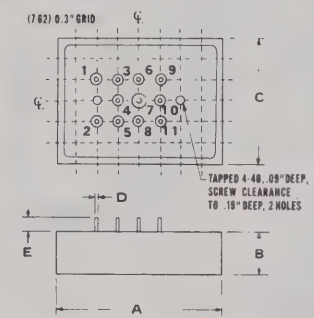


	B	C
MP288	2.50	.890
MP288a	2.10	1.80

MP289

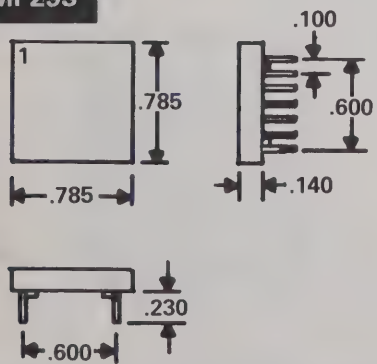


MP290

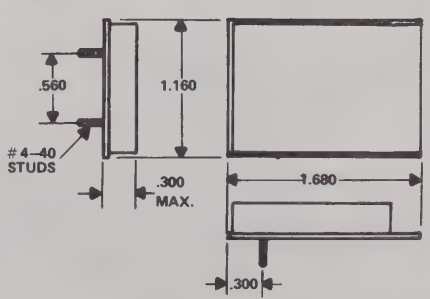


	A	B	C	D	E	REMARKS
MP290	2.40 MAX	.600 MAX	1.80 MAX	.040	.180	PIN 7 OMITTED
MP290a	2.40 MAX	.600 MAX	1.80 MAX	.040	.170 MIN	PINS 3,4,5,9 and 11 OMITTED
MP290b	2.40 MAX	.600 MAX	1.80 MAX	.040	.170 MIN	PINS 3,4 and 5 OMITTED
MP290c	2.40 MAX	.600 MAX	1.80 MAX	.040	.170 MIN	PINS 9,10 and 11 OMITTED
MP290d	2.40 MAX	.600 MAX	1.80 MAX	.040	.170 MIN	PINS 9 and 11 OMITTED
MP290e	2.60 MAX	.700 MAX	2.00 MAX	.040	.160 MIN	PINS 3,4 and 5 OMITTED
MP290f	2.40 MAX	.600 MAX	1.80 MAX	.040	.180	AS SHOWN
MP290g	2.60 MAX	.700 MAX	2.00 MAX	.040	.180 MIN	PINS 4 and 7 OMITTED
MP290h	2.40 MAX	.600 MAX	1.80 MAX	.040	.180	PINS 4,7,9 and 11 OMITTED

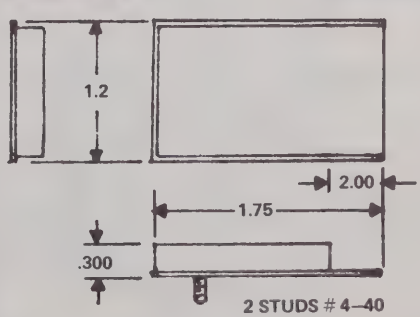
MP293



MP294



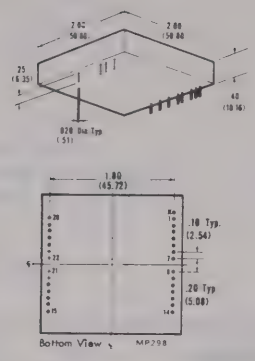
MP295



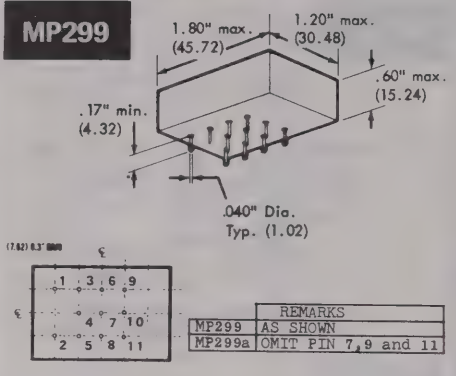
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

MP298

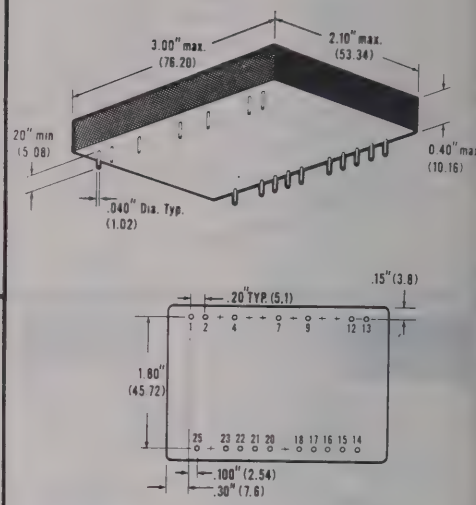


MP299

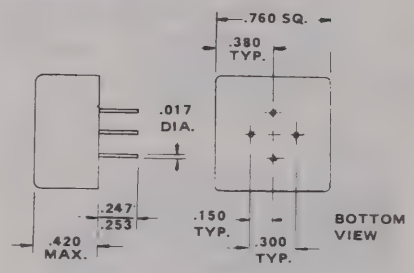


	REMARKS
MP299	AS SHOWN
MP299a	OMIT PIN 7, 9 and 11

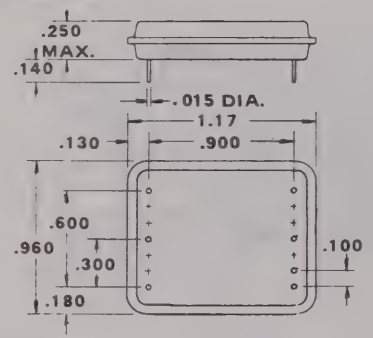
MP300



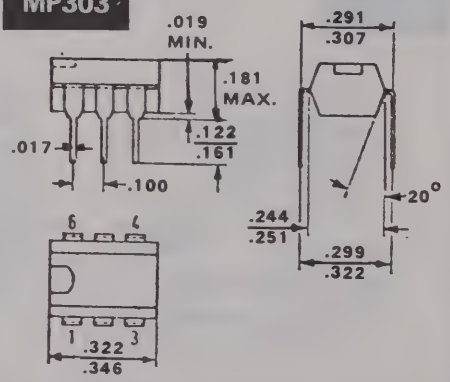
MP301



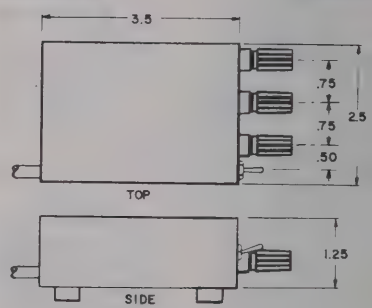
MP302



MP303

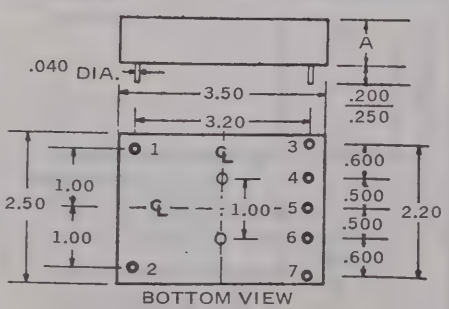


MP304

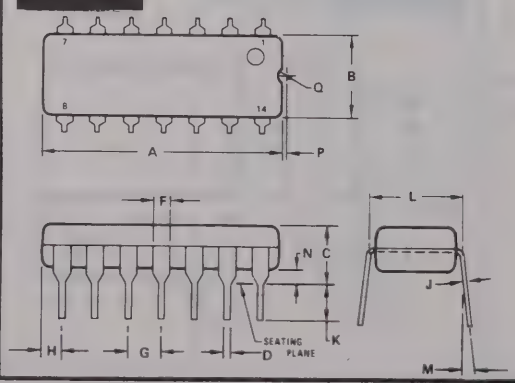


MP305

	A
MP305	.580
MP305a	1.25

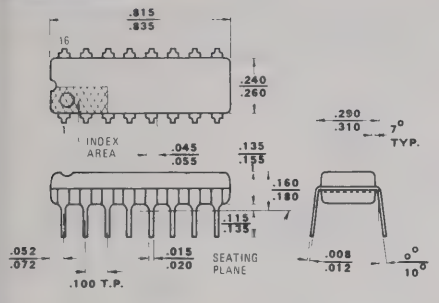


MP307



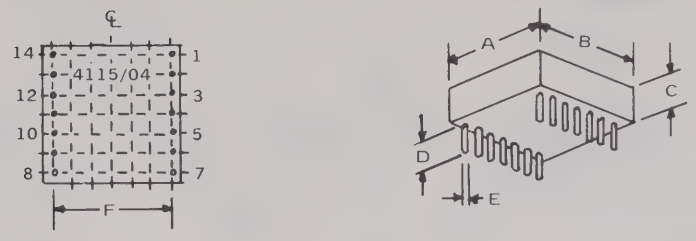
DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	18.16	18.80	0.715	0.740
B	6.10	6.60	0.240	0.260
C	4.06	4.57	0.160	0.180
D	0.38	0.51	0.015	0.020
F	1.02	1.52	0.040	0.060
G	2.54 BSC		0.100 BSC	
H	1.32	1.83	0.052	0.072
J	0.20	0.30	0.008	0.012
K	2.92	3.43	0.115	0.135
L	7.37	7.87	0.290	0.310
M	–	10°	–	10°
N	0.51	1.02	0.020	0.040
P	0.13	0.38	0.005	0.015
Q	0.51	0.76	0.020	0.030

MP308

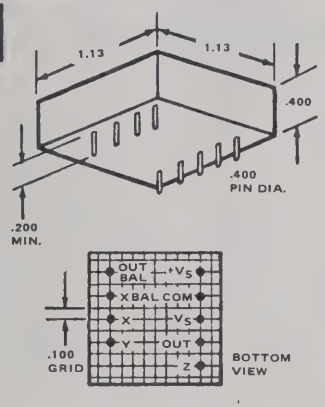


MP310

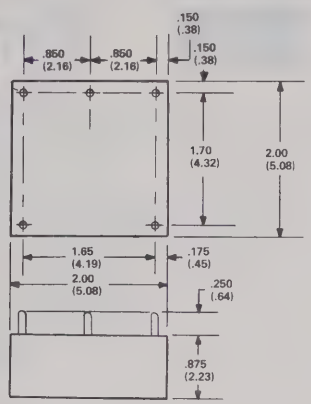
	A	B	C	D	E	F	REMARKS
MP310	.760	.760	.250	.180	.020	.600	AS SHOWN
MP310a	.460	.760	.250	.150	.020	.300	OMIT PINS 2,3,6 and 7



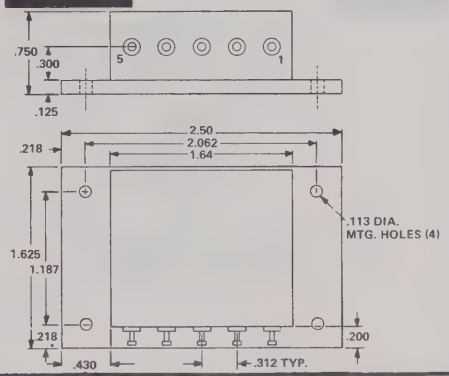
MP311



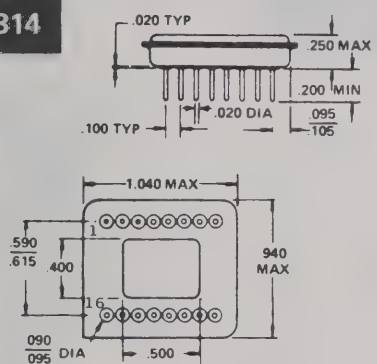
MP312



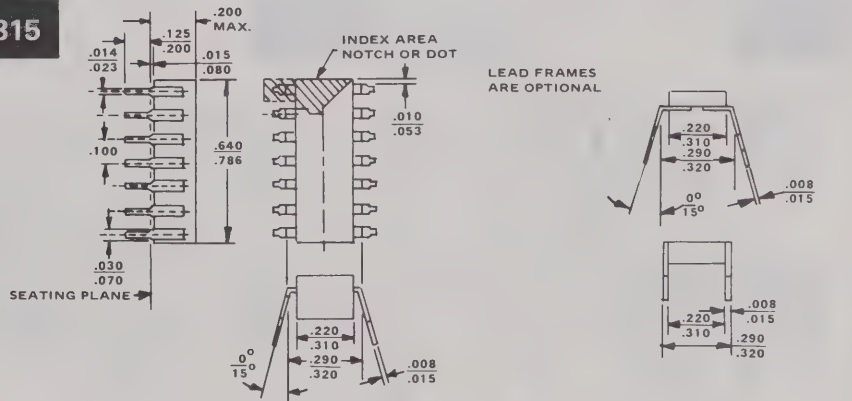
MP313



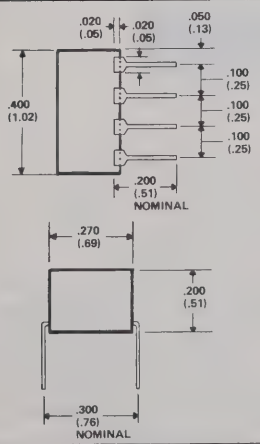
MP314



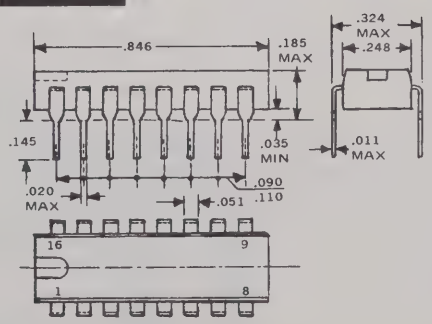
MP315



MP316



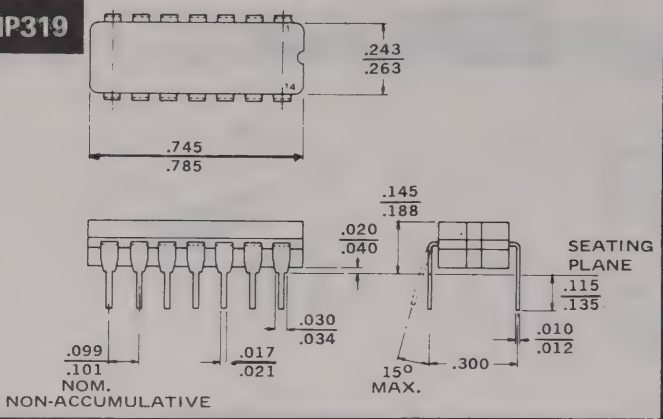
MP317



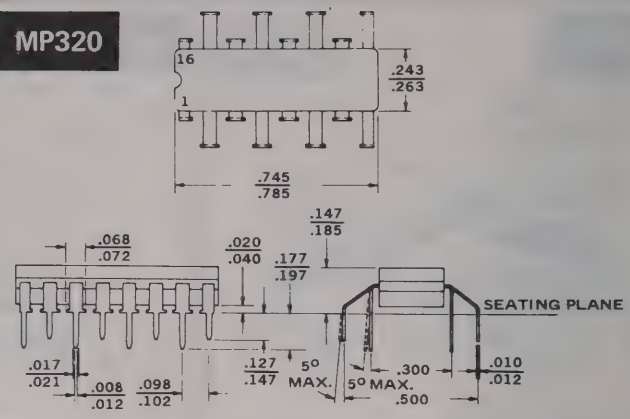
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

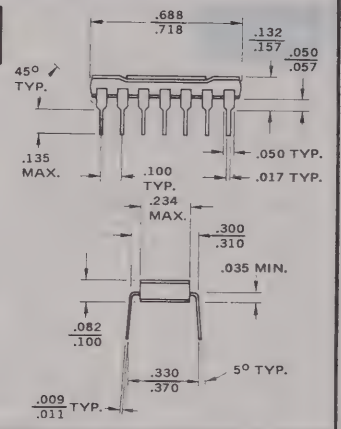
MP319



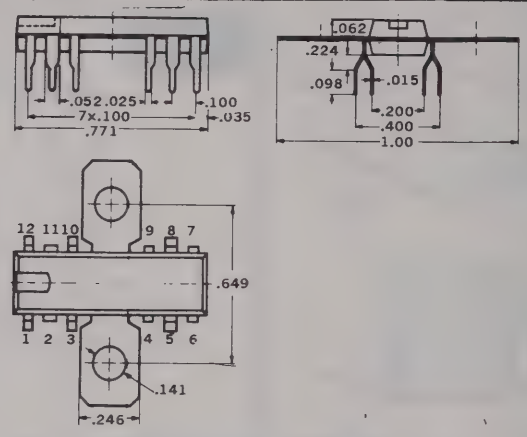
MP320



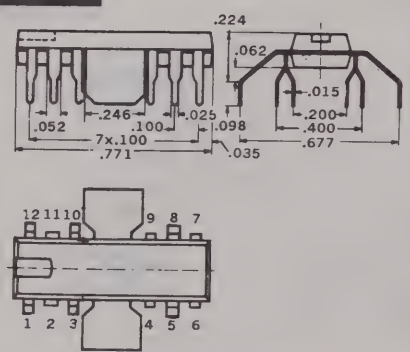
MP322



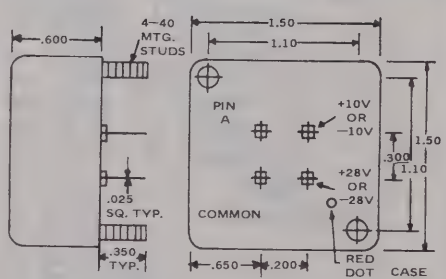
MP324



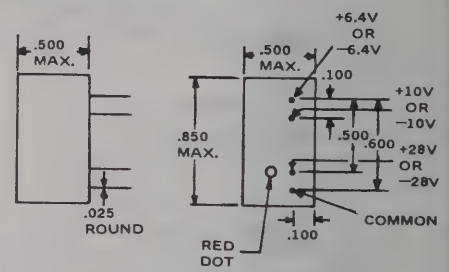
MP325



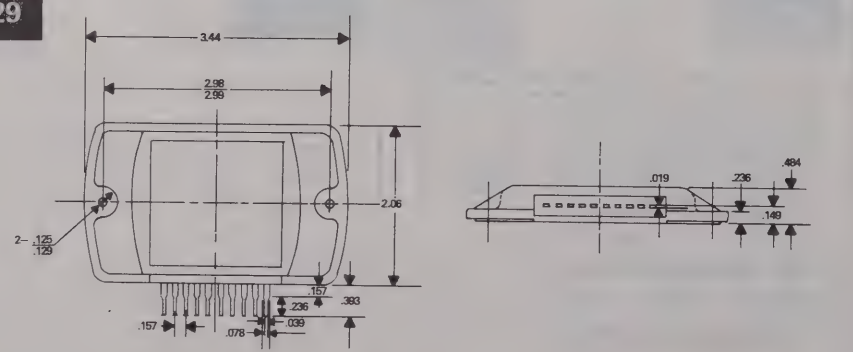
MP326



MP327



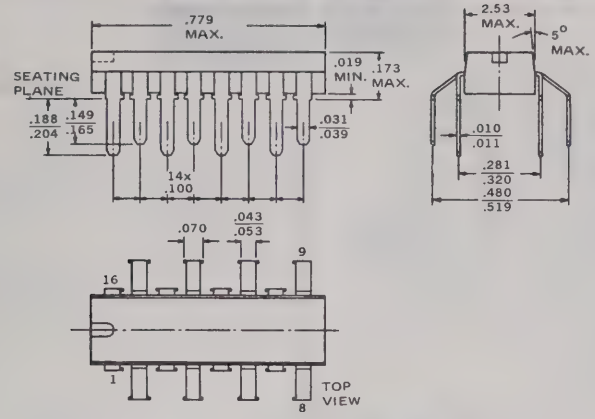
MP329



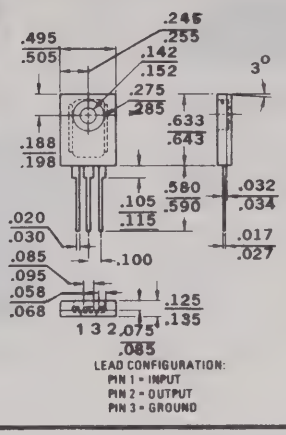
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

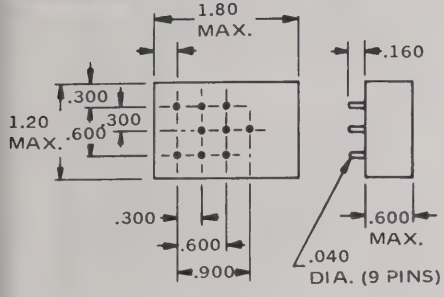
MP331



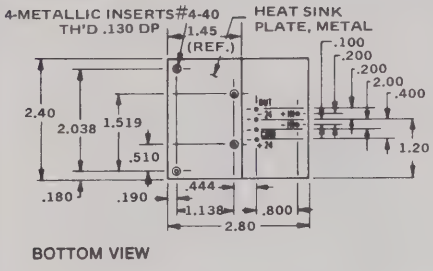
MP330

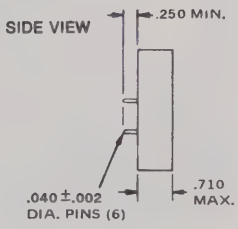


MP332

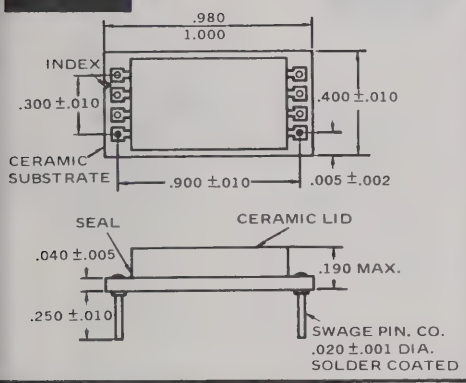


MP333

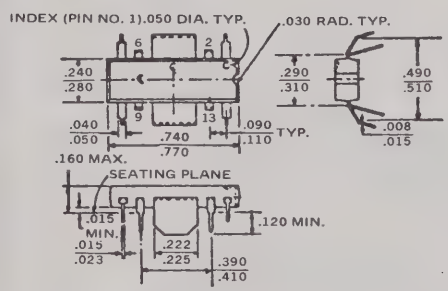




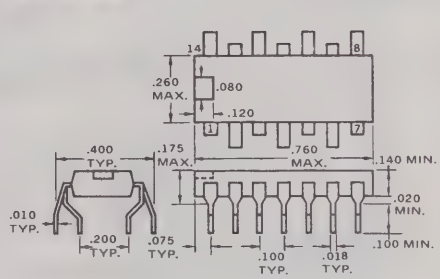
MP334



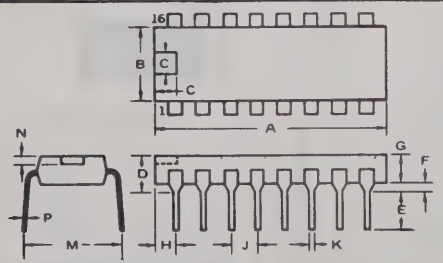
MP335



MP336

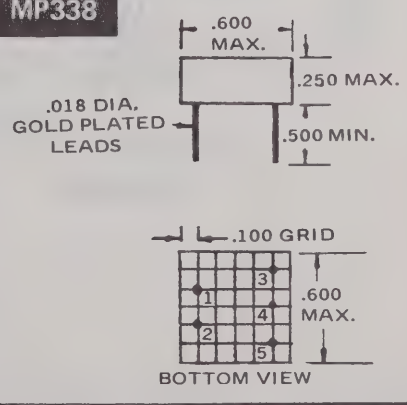


MP337



	A	B	C	D	E	F	G	H	J	K	M	N	P
MP337	.890 MAX	.260 MAX	.080	.175 MAX	.125 MIN	.020 MIN	.140 MAX	.030	.090 .110	.065 .085	.310 .350	.030	.008 .012
MP337a	.779 .795	.244 .259		.161 MAX	.122 .161	.019 MIN	.161	.039 .047	.100	.017	.299 .322		.009
MP337b	.840 .852	.240 .251		.196 MAX	.125 .150	.013			.100	.013 .019	.290 .375		.007 .014
MP337c	.870 MAX	.245 .255	.080	.145 .155	.125 MIN	.020 MIN	.125 .135	.060 .090	.100 TYP	.015 .021	.310 .350	.030 MAX	.009 .015
MP337d	.860 MAX	.244 .255		.185 MAX	.105 .154	.035 MIN	.150 MAX	.087 MAX	.100	.018	.299 .374		.010
MP337e	.850 MAX	.248 MAX		.185 MAX	.145	.035 MIN	.149		.100	.020 MAX	.324 MAX		.011

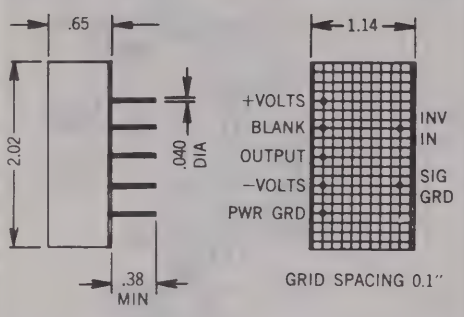
MP338



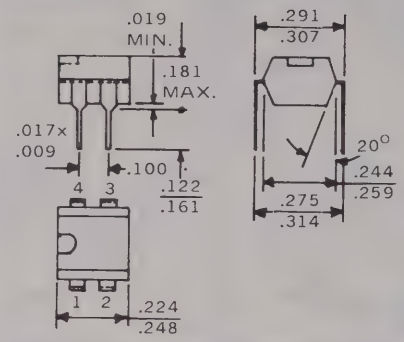
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

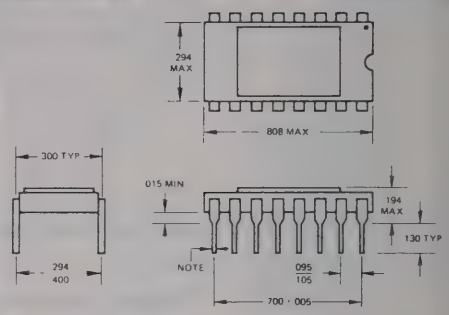
MP339



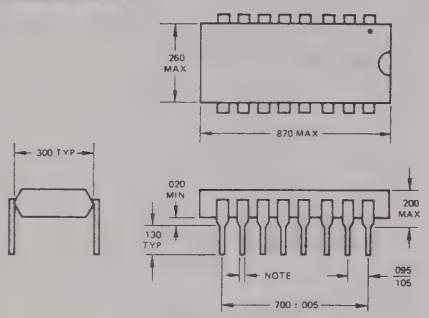
MP340



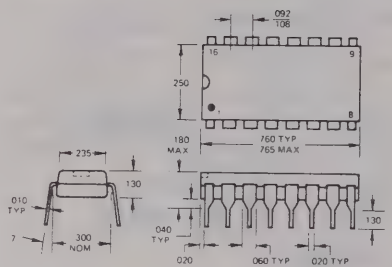
MP341



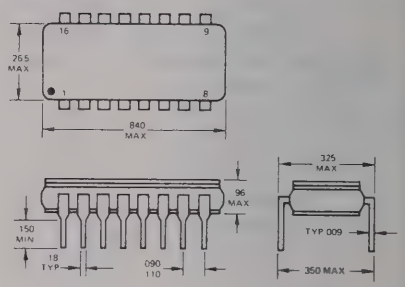
MP342



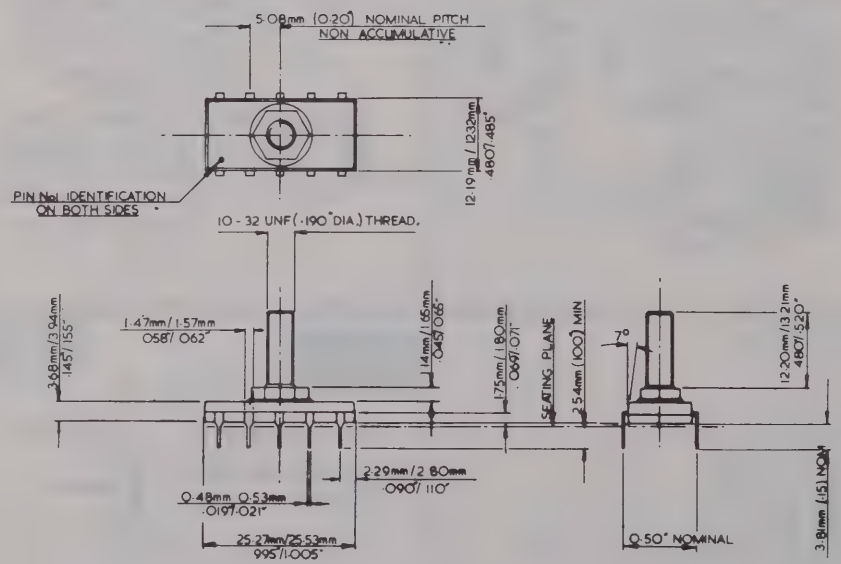
MP343



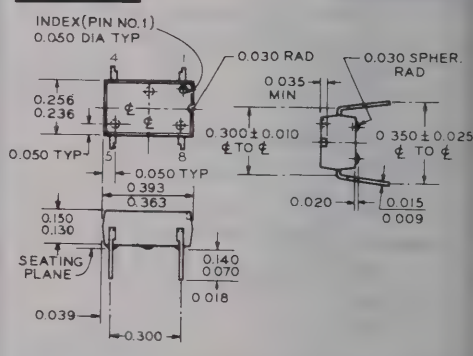
MP344



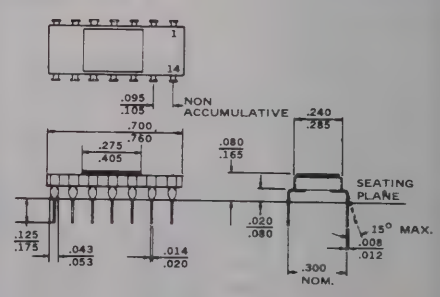
MP345



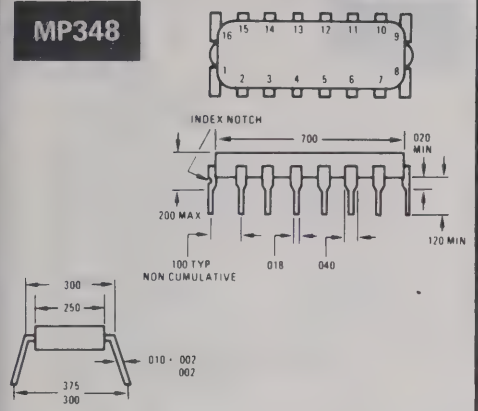
MP346



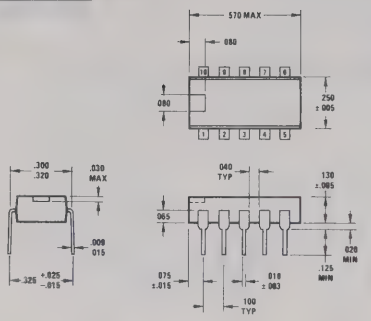
MP347



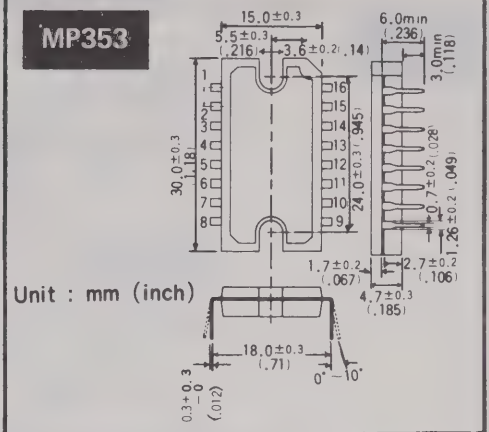
MP348



MP349

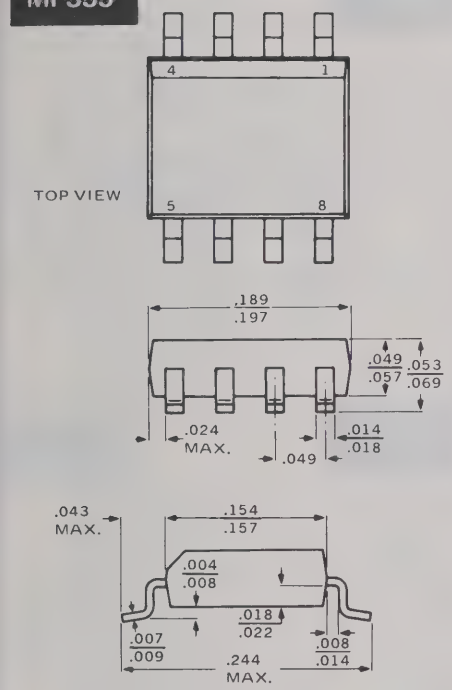


MP353

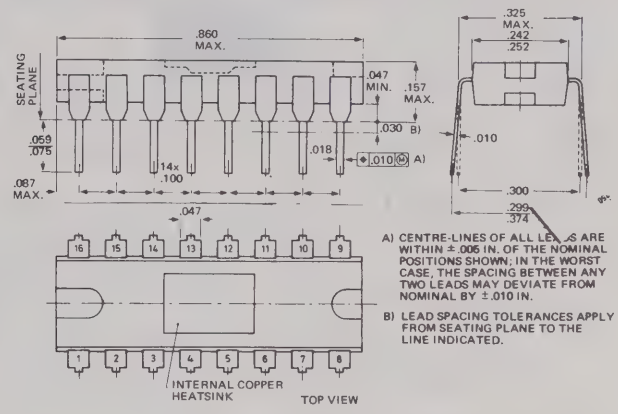


Unit : mm (inch)

MP355



MP357

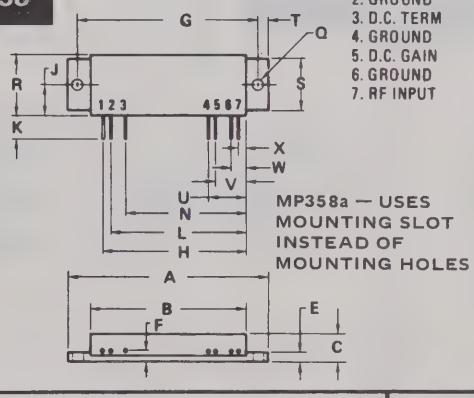


A) CENTRE-LINES OF ALL LEADS ARE WITHIN ± .005 IN. OF THE NOMINAL POSITIONS SHOWN; IN THE WORST CASE, THE SPACING BETWEEN ANY TWO LEADS MAY DEVIATE FROM NOMINAL BY ± .010 IN.

B) LEAD SPACING TOLERANCES APPLY FROM SEATING PLANE TO THE LINE INDICATED.

MP358

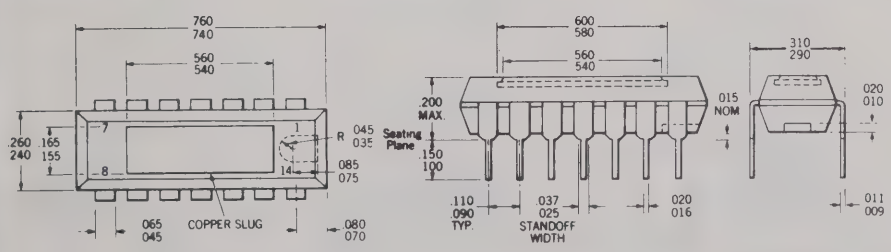
STYLE 1:
PIN 1. RF OUTPUT
2. GROUND
3. D.C. TERM
4. GROUND
5. D.C. GAIN
6. GROUND
7. RF INPUT



MP358a — USES MOUNTING SLOT INSTEAD OF MOUNTING HOLES

DIM	MILLIMETERS		INCHES	
	MIN	MAX	MIN	MAX
A	67.18	67.44	2.645	2.655
B	52.32	52.83	2.060	2.080
C	8.64	9.65	0.340	0.380
E	2.54	3.05	0.100	0.120
F	2.16	2.41	0.085	0.095
G	60.96	61.21	2.400	2.410
H	47.88	48.64	1.885	1.915
J	10.67	11.18	0.420	0.440
K	5.84	7.62	0.230	0.300
L	45.34	46.10	1.785	1.815
N	40.26	41.02	1.585	1.615
Q	3.45	3.71	0.156	0.146
R	20.57	21.08	0.810	0.830
S	17.15	17.40	0.675	0.685
T	2.92	3.18	0.115	0.125
U	12.32	13.08	0.485	0.515
V	9.78	10.54	0.385	0.415
W	4.70	5.46	0.185	0.215
X	2.16	2.92	0.085	0.115

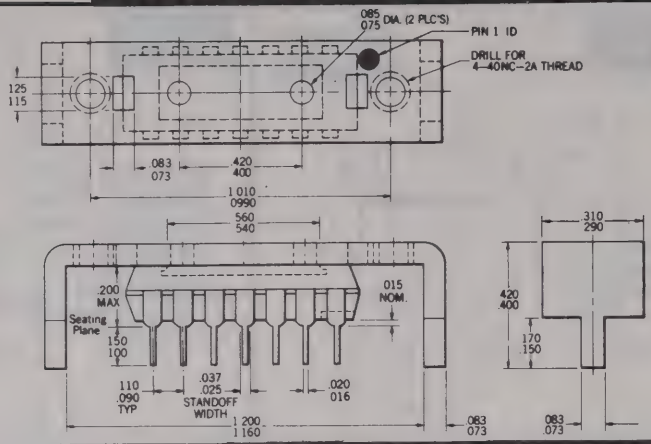
MP359



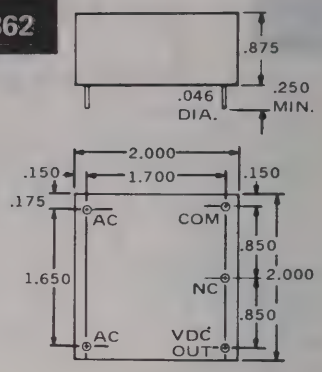
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

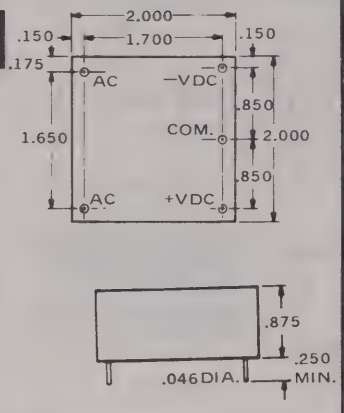
MP360



MP362

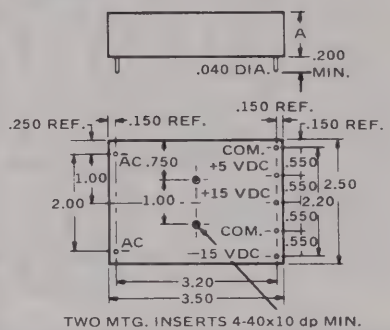


MP363



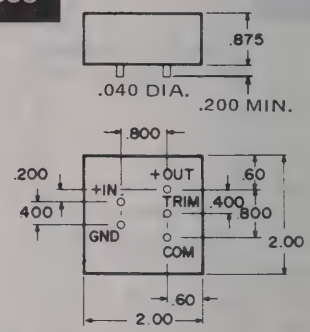
MP365

	A
MP365	.875
MP365a	1.25
MP365b	1.56

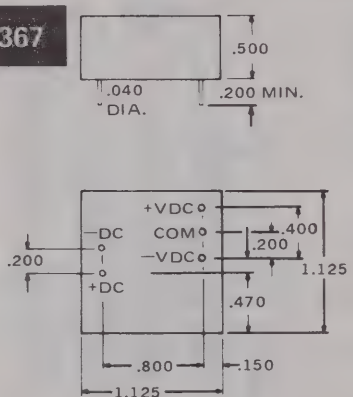


TWO MTG. INSERTS 4-40x10 dp MIN.

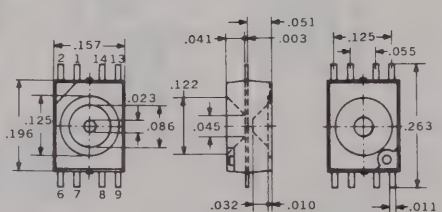
MP366



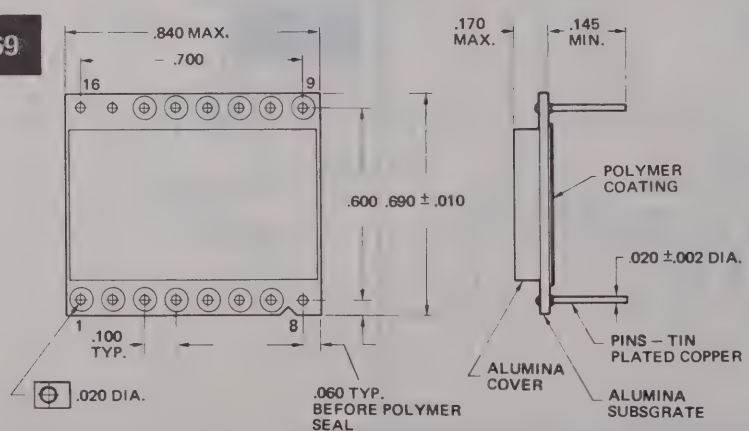
MP367



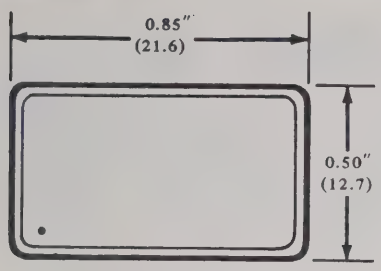
MP368



MP369

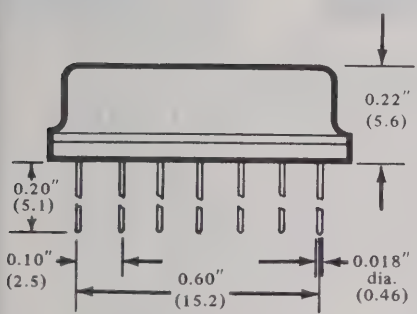


MP371



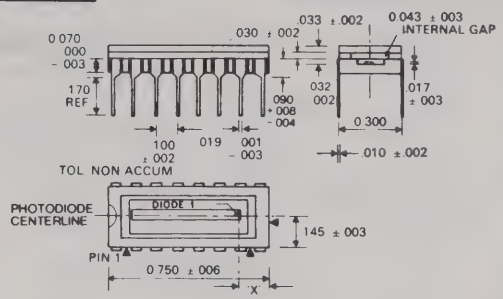
(TOP VIEW)

Dimensions in millimeters are shown in parentheses.



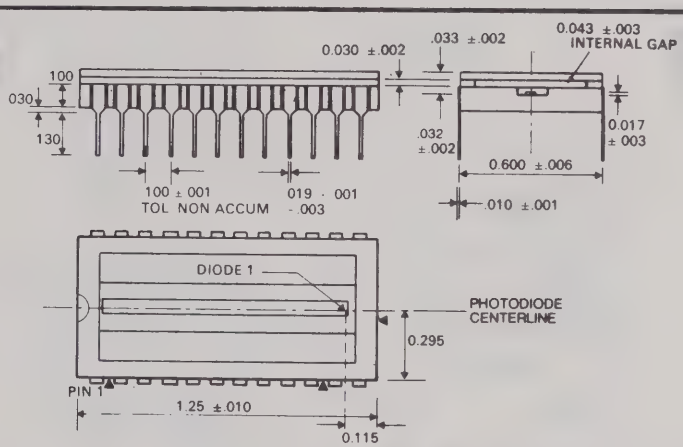
(SIDE VIEW)

MP372

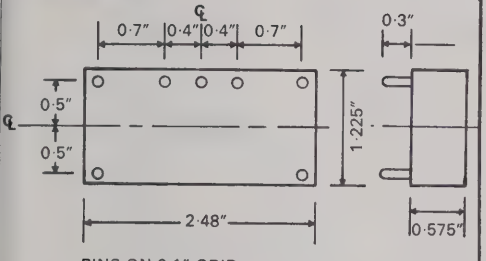


MP372	.277
MP372a	.249
MP372b	.177
MP372c	.131

MP373

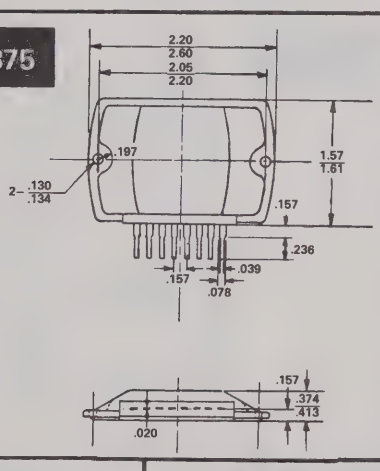


MP374

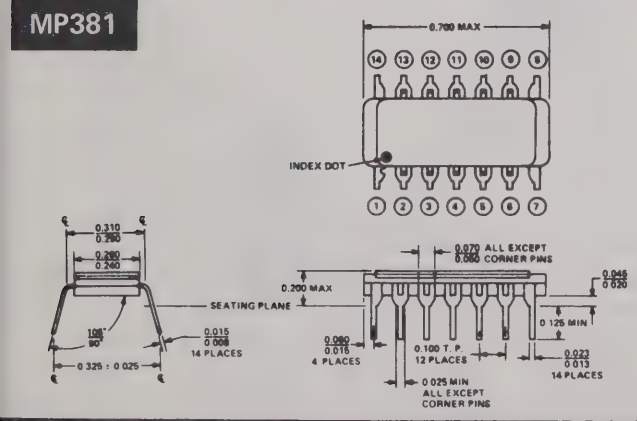


PINS ON 0·1" GRID
PINS: BRASS – GOLD PLATED
PIN DIAMETER 40 THOU. NOM.

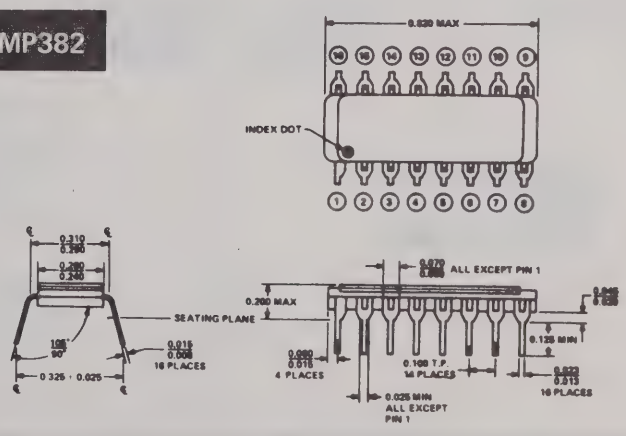
MP375



MP381



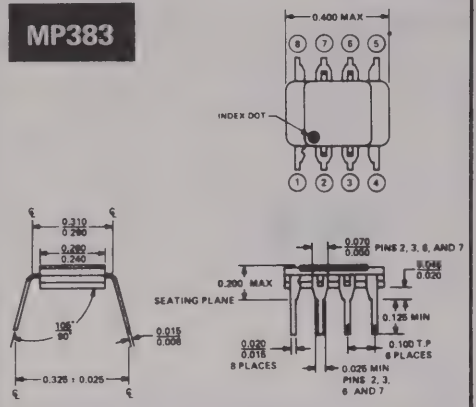
MP382



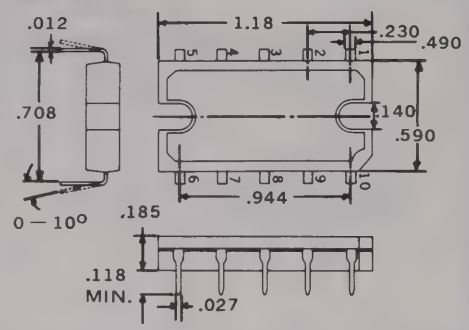
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

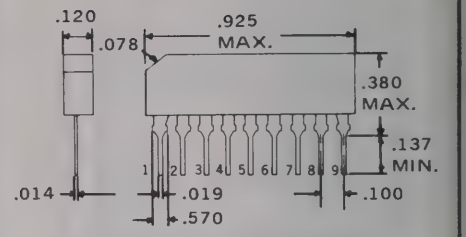
MP383



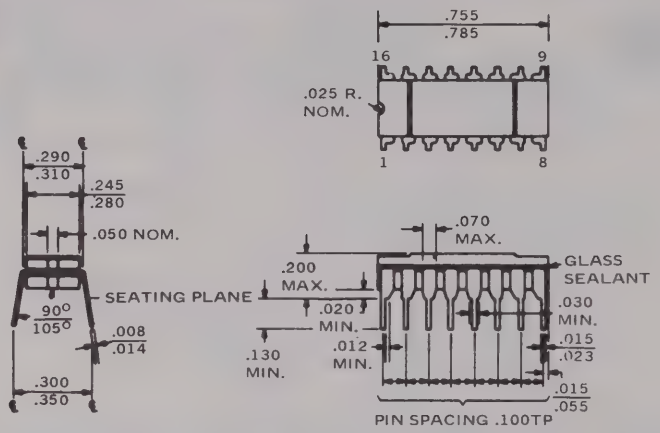
MP384



MP385

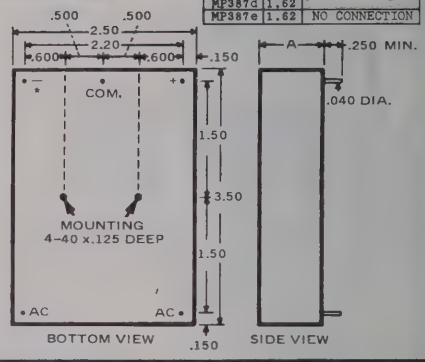


MP386

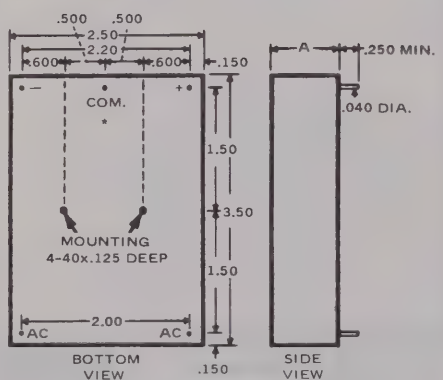


MP387

	A	*REMARKS
MP387	.875	
MP387a	.875	NO CONNECTION
MP387b	1.25	
MP387c	1.25	NO CONNECTION
MP387d	1.62	
MP387e	1.62	NO CONNECTION

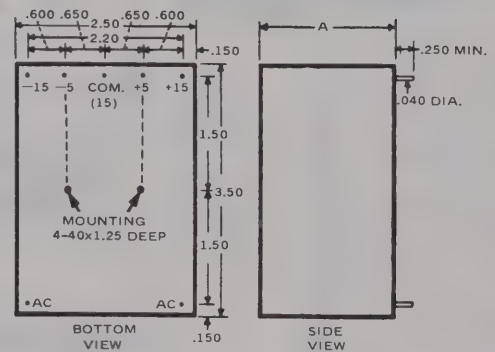


MP388



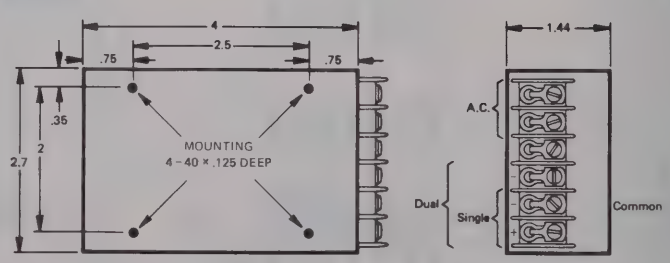
	A	*REMARKS
MP388	.875	
MP388a	.875	NO CONNECTION
MP388b	1.25	
MP388c	1.25	NO CONNECTION
MP388d	1.62	
MP388e	1.62	NO CONNECTION

MP389



	A
MP389	1.88
MP389a	1.25

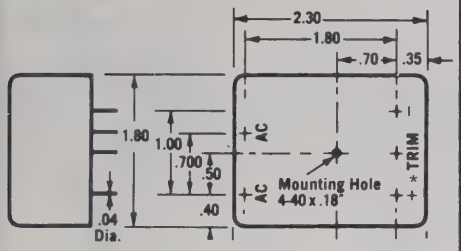
MP390



14. OUTLINE DRAWINGS

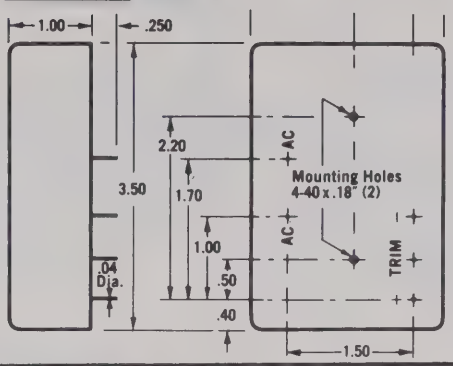
IN DRAWING NUMBER SEQUENCE

MP391



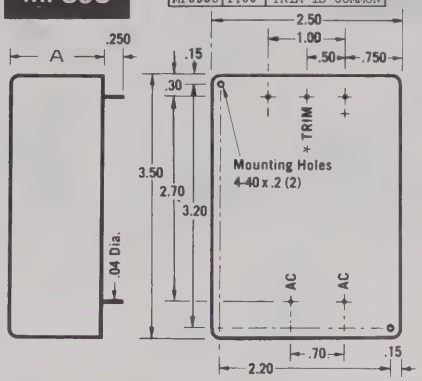
*TRIM IS COMMON FOR MP391a

MP392

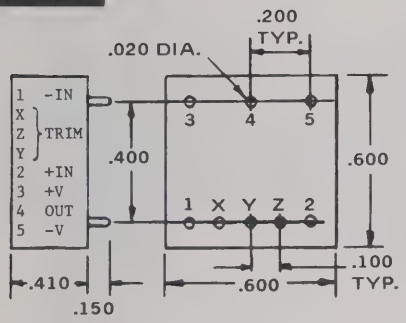


MP393

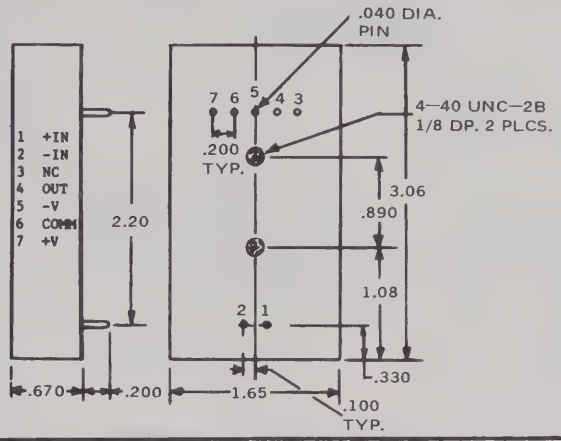
	A	*REMARKS
MP393	1.25	
MP393a	1.25	TRIM IS COMMON
MP393b	1.00	TRIM IS COMMON



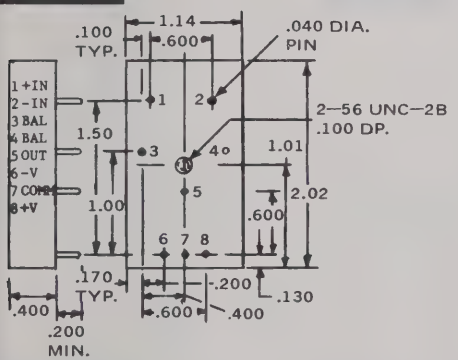
MP394



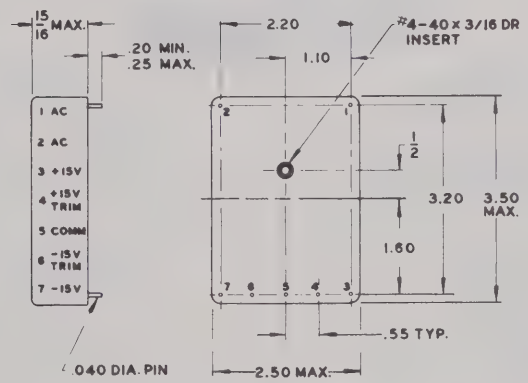
MP395



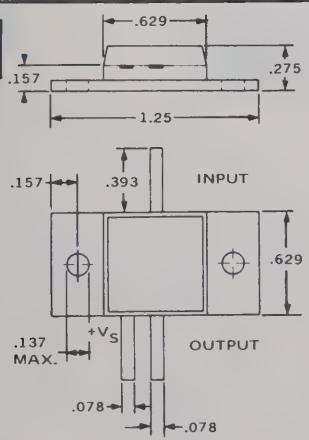
MP396



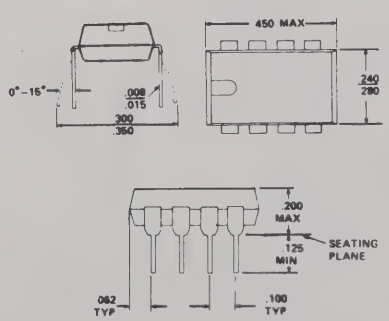
MP397



MP398



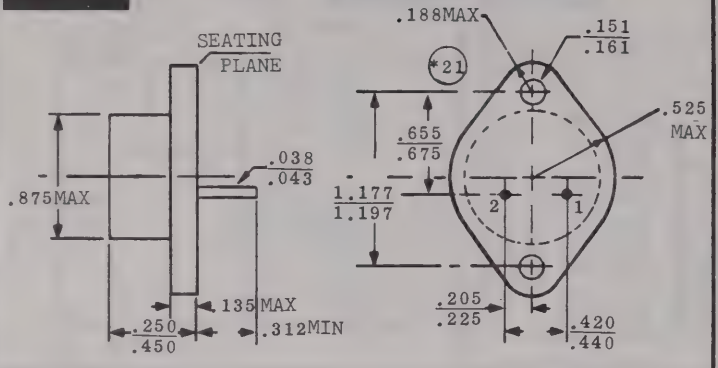
MP399



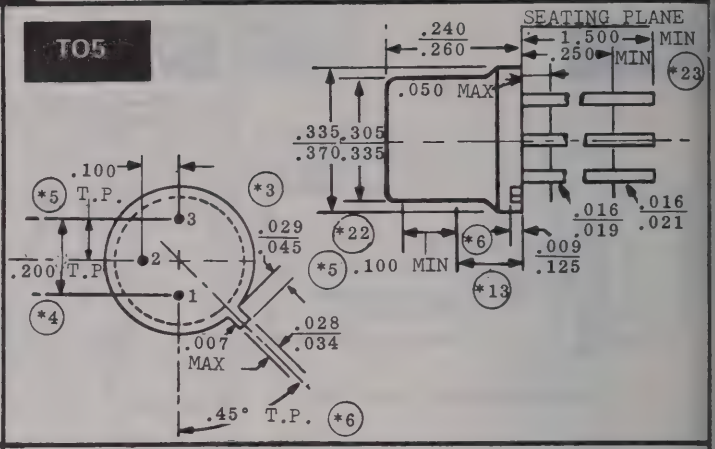
14. OUTLINE DRAWINGS

IN DRAWING NUMBER SEQUENCE

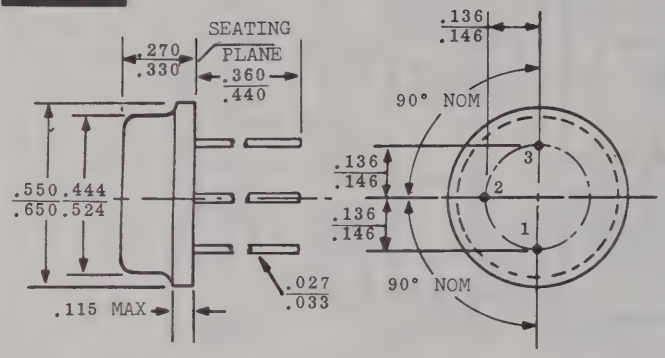
TO3



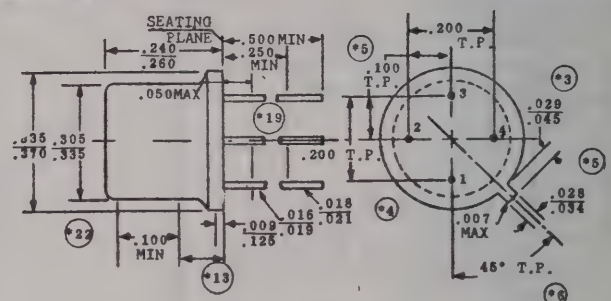
TO5



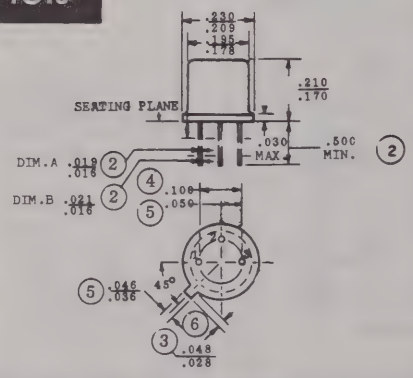
TO8



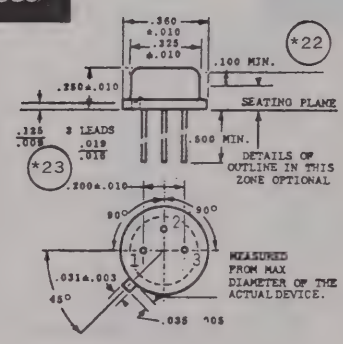
TO12



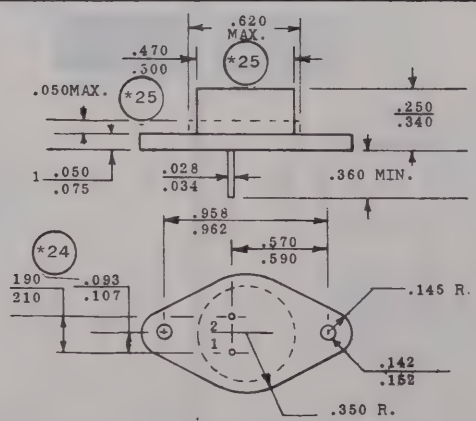
TO18



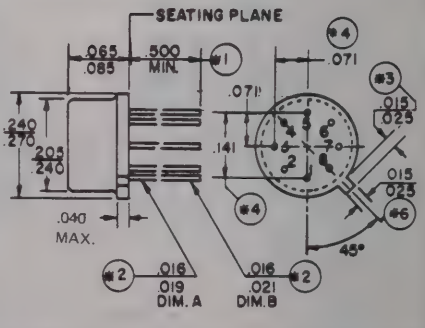
TO39



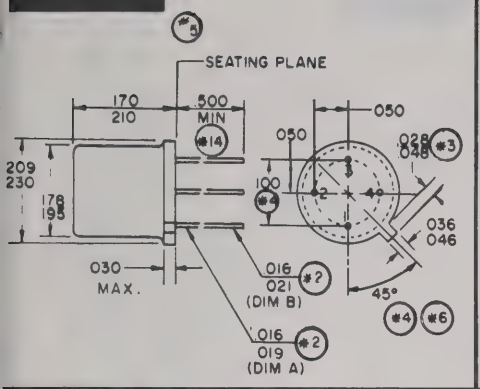
TO66



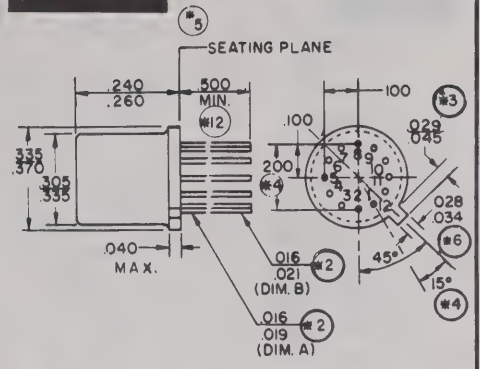
TO70



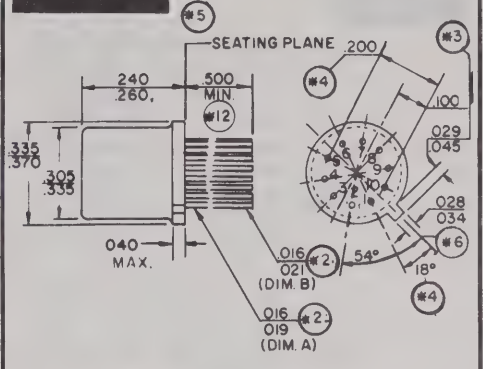
TO72



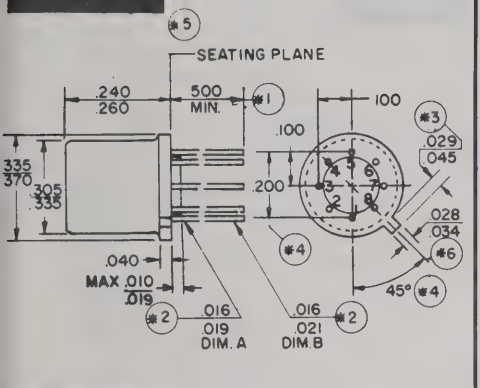
TO73



TO74



TO76



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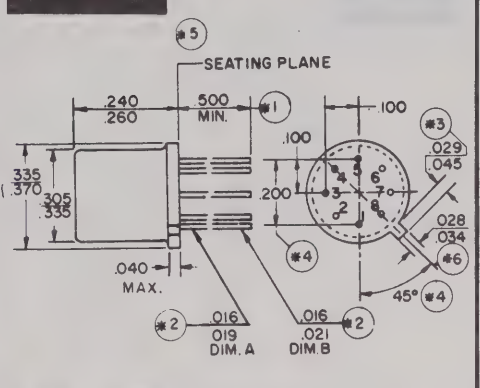
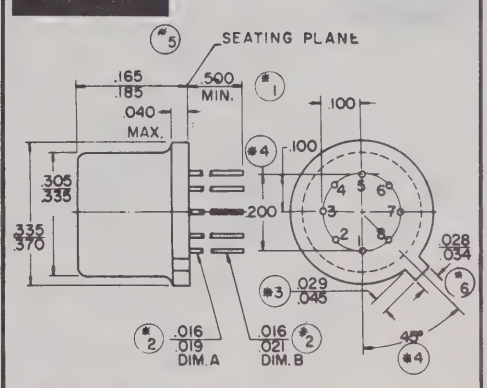


TO78



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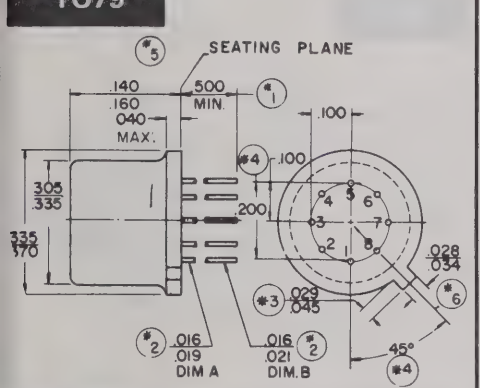
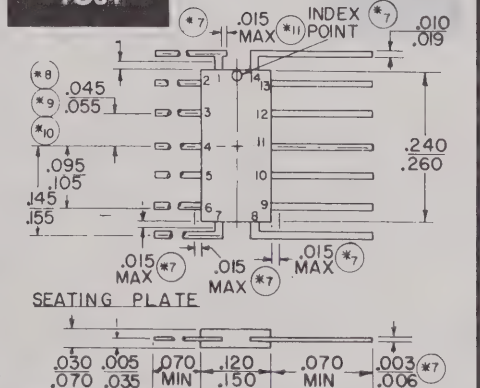


TO84



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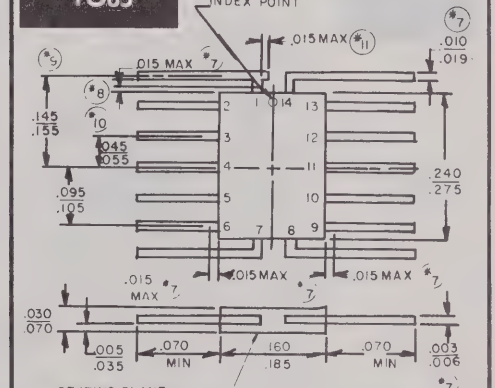

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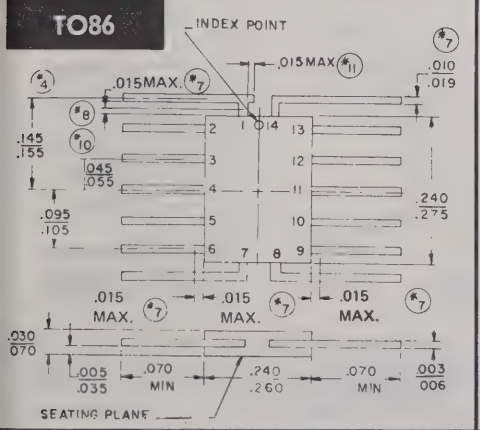

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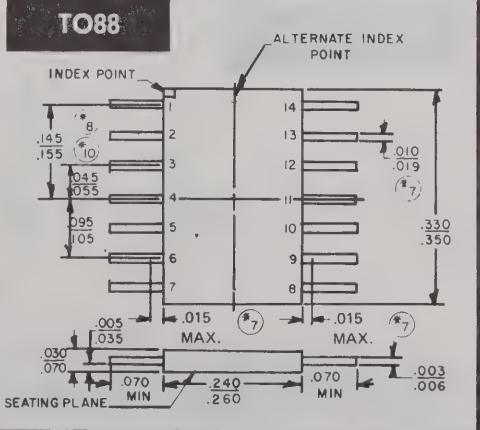

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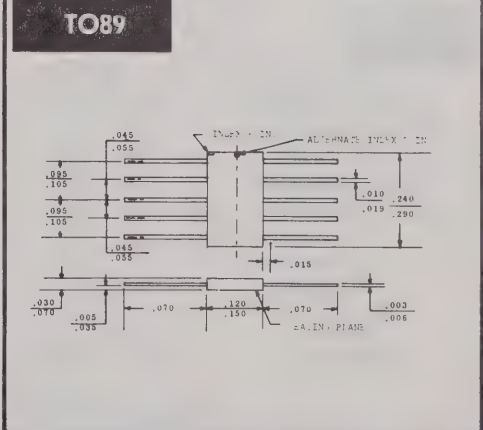

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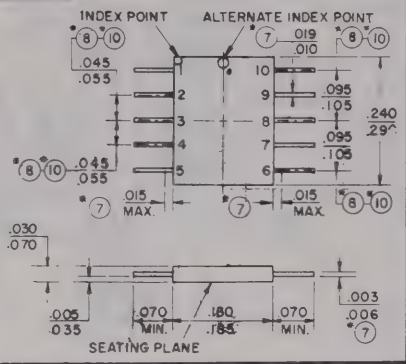

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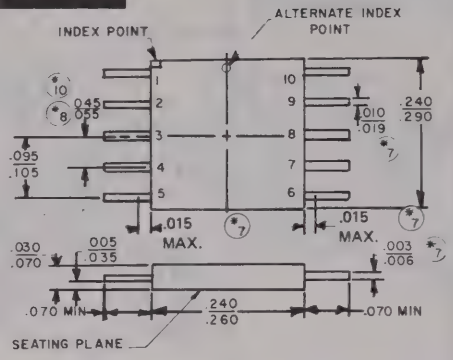
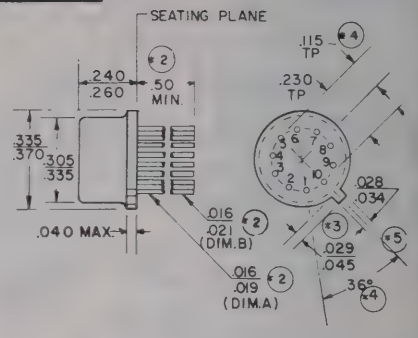


TO96



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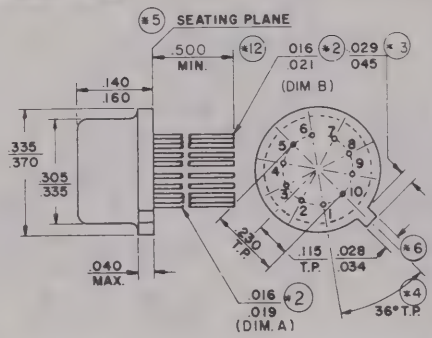
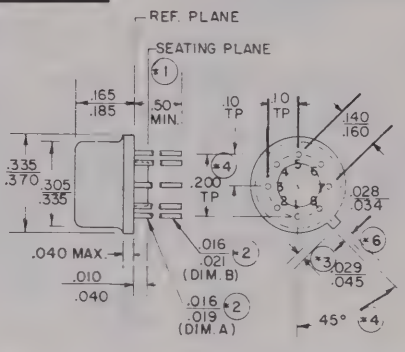
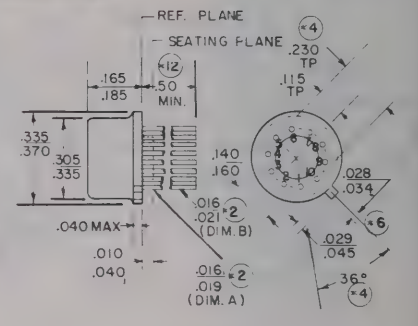


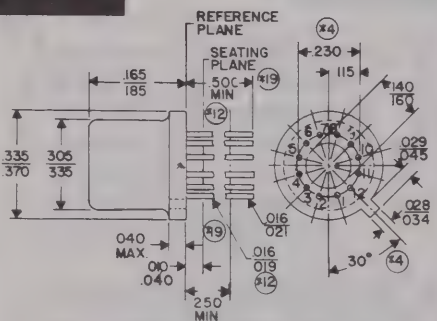
TO99



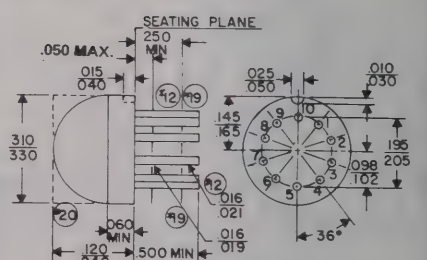
TO100



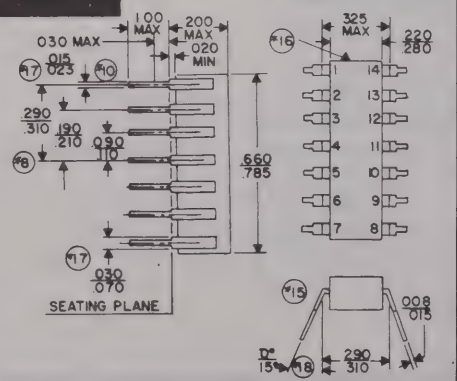
TO101



TO110



TO116



Y220/TO220

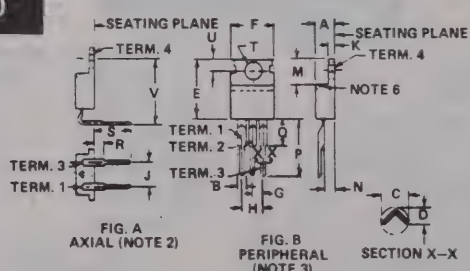


FIG. A AXIAL (NOTE 2) — FIG. B PERIPHERAL (NOTE 3) — SECTION X–X

NOTES

1. Refer to rules for dimensioning semiconductor product outlines included in Publication No. 76.
2. Figure A, Axial Terminal Configuration applicable.
3. Figure B, Peripheral Terminal Configuration, applicable.
4. Alternate lead configurations allowed within C and D.
5. Tab contour optional within M and F.
6. Chamfer optional.
7. Position of lead to be measured .050 - .065 below seating plane.
8. Position of lead to be measured .250 - .255 from bottom of dimension E.

	A	B	Q	D	E	F	Q	H	J	K	M	N	P	Q	R	S	T	U	V
Y220a/ TO220AA	.140 .190	.045 .070	.020 .045	.012 .045	.560 .625	.380 .420			.190 .210	.020 .055	.230 .270	.080 .115			.050 MAX	.360 .422	.139 .147	.100 .130	.580 .610
Y220b/ TO220AB	.140 .190	.045 .070	.020 .045	.012 .045	.560 .625	.380 .420	.090 .110	.190 .210		.020 .055	.230 .270	.080 .115	.500 .562	.250 MAX			.139 .147	.100 .130	

JEDEC "MO" DRAWING NOTES

1. Refer to rules for dimensioning axial lead product outlines.
2. Refer to rules for dimensioning peripherial lead outlines.
3. Leads within .005 radius of true position (TP) at gauge plane with maximum material condition and unit installed.
4. Leads within .003 or .007 radius of true position (TP) at gauge plane with maximum material condition.
5. Apply in zone measured .000 to .030 when unit installed. Leads within .005 radius of (TP) at gauge plane with maximum material condition.
6. Applies to spread leads prior to installation.
7. Dimension .016 to .019 applies between dimensions .000 to .050 and .250 to .500. Dimension .016 to .021 applies between dimensions .250 to .500 and .500 from seating plane. Diameter is uncontrolled in dimension .000 to .050 and beyond dimension .500.
8. Measured from maximum diameter of device.
9. These dimensions determine a zone within which all body and lead irregularities lie.
10. Body stand off four places, spherical radius on seating surface. Terminal lead stand offs omitted.
11. The body stand off group is centered on the module and the stand offs shall be within a .010 radius of their TP measured at gauge plane.
12. Mechanical index.
13. Radius three sides.
14. Draft four sides.
15. Either numeric or Alpha-numeric terminal lead designation system may be used for this outline. Alpha-numeric system is preferred.
16. Terminal lead stand off, four places. Centered on pin within .006. Body stand offs omitted.
17. Contour within dotted outline optional.
18. The dimension .016 to .019 applies between the dimensions .025 max and .070 min. Diameter is uncontrolled within the .025 dimension.
19. When base of body is to be attached to heat sink, terminal lead stand offs are not required and Dim. B equals 0. When Dim. B equals 0, the leads emerge from the body with the D dim. and reduce to the C dim. above the seating plane.
20. Contour optional.
21. Pin spacing is .100 TP except for outer most rows where spacing is 1.5x.100 TP. (For example - spacing between pin #64 and #1 is .150 TP, where as spacing between pin #1 and #2 and #3, etc. is .100 TP.)
22. Typical all sides.
23. Terminal lead shall be within .203 mm radius of their TP measured at gauge plane.
24. Visual index position relates to JEDEC outline TO-69. Visual index located within index area is preferred.
25. Distance between lead centerlines.

JEDEC "TO" DRAWING NOTES

1. Maximum number of leads omitted in this outline, Three (3). The number and position of present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.

2. (All leads) Diameter is uncontrolled to .050 from seating plane and beyond minimum tolerance of lead length (1.5 or .5) from seating plane. Dim. A applies between .050 and .250 from seating plane. Dim. B applies between .250 and minimum tolerance of lead length from seating plane.

3. Measured from maximum diameter of the actual device.

4. Leads having maximum diameter .019 (.483MM) measured in gaging plane .054 (1.37MM) - .001 (.025MM) - .000 (.00MM) below the seating plane of the product shall be within .007 (.178MM) of their true position relative to a maximum width tab.

5. The product may be measured by direct methods or by gage.

6. Tab centerline.

7. Lead dimensions uncontrolled in this zone to allow for body and lead finish irregularities.

8. Leads missing from their designated positions shall also be counted when numbering leads for specific applications.

9. Spacing and angle of the end leads at the point of emergence of body is not controlled.

10. Leads spacing shall be measured within .030 (.762MM) from the point of emergence from the body or, as in the case of end lead, from the point where the extension of the body outline intersects the end leads.

11. Mechanical index, optional.

12. Maximum number of leads omitted in this outline, One (1). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular spacing of any two adjacent leads.

13. Irregularity in body outline not controlled in this zone.

14. Maximum number of leads omitted in this outline, None (0). The number and position of leads actually present are indicated in the product registration. Outline designation determined by the location and minimum angular or linear spacing of any two adjacent leads.

15. Overall installed width.

16. Index to be visible from top, this end only.

17. Lead transition geometry from .015/.023 to .030/.070 optional on body side of seating plane.

18. Installed position of lead centers.

19. (All leads) .016/.019 applies between .050 max. and .250 min. .016/.021 applies between .250 min. and .500 (12.70MM) from reference plane. Diameter is uncontrolled in .050 max. and beyond .500 (12.70MM) from reference plane.

20. Contour of package beyond this zone optional, but must be confined with .310/.330 and .120/.240.

21. These dimensions should be measured at points .050 (1.27MM) to .055 (1.40MM) below seating plane. When gage is not used, measurement will be made at seating plane.

22. This zone is controlled for automatic handling. The variation in actual diameter within the zone shall not exceed .010 (.254MM).

23. (Three Leads) Dim. .016-.019 applies between .050 max. and .250 min. Dim. .016-.021 applies between .250 and 1.5 (38.10MM) from seating plane. Diameter is uncontrolled in .050 max. and beyond 1.5 (38.10MM) from seating plane.

24. Dimension does not include sealing flanges.

25. The outline contour is optional within zone defined by these dimensions.

SECTION 15

LINEAR I C

Manufacturers' Local Offices

These manufacturers have listed their local offices in this section for your convenience. Please contact the local office nearest you for any additional information you may need.

(MANUFACTURERS IN ORDER OF D.A.T.A. CODE LETTERS)

ALGG – AEG-TELEFUNKEN

	Zip Code	Telephone No.	Telex
Postfach 1042, D 7100 Heilbronn, Germany		07131-8821	728746

APX – AMPEREX ELECTRONIC CORPORATION

			Zip Code	Telephone No.	TWX
Providence Pike, Slatersville, Rhode Island			02876	401-762-9000	710-387-1591
ILLINOIS	Elk Grove Village	Amperex Electronic Corporation 175 Scott Street	60007	312-593-8220	910-222-3457
NEW YORK	Hicksville	Amperex Electronic Corporation 230 Duffy Avenue	11802	516-931-6200	516-433-9045
CANADA	Ontario	Philips Electron Devices 116 Vanderhoof Avenue Toronto	M4G 2J1	416-425-5161	Telex 02-2513

BAH – BELL & HOWELL

			Zip Code	Telephone No.	TWX
CONTROL PRODUCTS DIVISION 706 Bostwick Avenue, Bridgeport, Connecticut			06605	203-368-6751	710-453-2997 Telex 964234
INTERNATIONAL					
ENGLAND	Basingstoke (Hants)	Bell & Howell, Ltd. Lennox Road		3681	
FRANCE	Rungis	Bell & Howell France, S.A. 112/116 Rue des Solets Zone SILIC	94533	686.70.54	
GERMANY	Friedberg/Hessen	Bell & Howell GmbH Post Office Box 1230	636	(06031)3441	
JAPAN	Tokyo	Columbia Import and Export Co., Ltd. Shin Nichibo Building 2-1, Sarugaku-cho 1-chome, Chiyoda-Ku	101	03(291)0641-8	

DIC – DICKSON ELECTRONICS CORPORATION

	Zip Code	Telephone No.	Telex
A MEMBER OF THE SIEMENS GROUP 8700 East Thomas Road, (P.O. Box 1390), Scottsdale, Arizona	85252	602-947-2231	667-406 TWX 910-950-1292

FERB – FERRANTI LIMITED

			Zip Code	Telephone No.	Telex
Gem Mill, Chadderton Oldham, Lancashire, England			OLN 8NP	061-624-6661	668038
Dunsinane Avenue, Dundee, Scotland			DD2 3PN	0382-89311 0382-89321	76166
AUSTRALIA	Victoria	Namco Electronics 239 Bay Street North Brighton	3186	96-2891	AA 31261
DENMARK	Copenhagen F	Fredslund Pedersen Finsenvej 39		01-36 9050	15052
FRANCE	Paris 15e	Ceram 31, Rue du Docteur Finlay		577 42 50	25305 ATTN. CERAM
GERMANY	8 Munich 22	Ferranti GmbH Widenmayerstrasse 5		0811 297353	
ITALY	Milano	Messrs. Mottola Piazzeta Umberto Giordano 2	20122	780 231	31317
SWEDEN	Stockholm 10	Bergman & Beving AB Karlavagen 76		08/246040	19929
	Vallingby	Sonab Marketing A.B. (Agency Dept.) Sorterargatan 8	162 26	08/38 01 30	17879
U.S.A.	California	Roland Olander 540 Hollywood Way Burbank	91505	213-843-5200	910-498-2720
	New York	Ferranti Electric, Inc. East Bethpage Road Plainview, Long Island	11803	516-293-8383	510-224-6483

FSC – FAIRCHILD SEMICONDUCTOR

	Zip Code	Telephone No.	TWX
DIV. OF FAIRCHILD CAMERA & INSTRUMENT CORP. 464 Ellis Street, Mountain View, California	94042	415-962-5011	910-379-6435 Cable FAIRSEMCO

INL – INTERSIL, INC.

	Zip Code	Telephone No.	TWX
10900 North Tantau Ave., Cupertino, California	95014	408-257-5450	910-338-0228

MATJ – MATSUSHITA ELECTRIC CORPORATION OF AMERICA

	Zip Code	Telephone No.	TWX
INDUSTRIAL COMPONENT DEPARTMENT 54th Floor, Pan-Am Building, 200 Park Avenue, New York, New York	10017	212-973-5710	710-581-4158

INTERNATIONAL

GERMANY	2 Hamburg 36	Matsushita Electric Sales (Europe) GmbH Jungfernstieg 40	34153/4/5	Telex HAMATELEC HAMBURG
JAPAN	Kyoto	Matsushita Electronics Corporation Semiconductor Division 1 Yatemachi Kotari Nagaokakyo City	075-921-8151	

MIS — MINI-SYSTEMS, INC.

			Zip Code	Telephone No.	TWX
20 David Road, North Attleboro, Massachusetts			02761	617-695-0206	710-348-0564
ARIZONA	Phoenix	J. S. Heaton Company Post Office Box 11750	85017		602-264-7887
COLORADO	Denver	J. S. Heaton Company 1660 Albion Street Suite 822	80222	303-758-5130	
INTERNATIONAL					
					Telex
ENGLAND	Croydon	EPAK Electronics, Ltd. Suffolk House George Street	CR9 3QL	01-688-9201	28386
					Telex
ISRAEL	Tel Aviv	STG International, Ltd. 52 Nachlat Benyamin Street Post Office Box 1276		53459	033-229
WEST GERMANY	8000 Munchen 40	Ingenieurburo fur Elektronik Bismarck Strasse 11A		081 117 6509	
					Telex
	Offenbach am Main	NEUTRON GmbH Postfach 124	D-605	0611/813930 0611/813931	841-85414

MPI — MICROPAC INDUSTRIES, INC.

	Zip Code	Telephone No.	TWX
905 East Walnut Street, Garland, Texas	75040	214-272-3571	910-860-5186

OPA — OPAMP LABS, INC.

	Zip Code	Telephone No.
1033 North Sycamore Avenue, Los Angeles, California	90038	213-934-3566

PHIN – PHILIPS GLOEILAMPENFABRIEKEN

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BF, Eindhoven, Netherlands				040 79 11 11	PHILIPS EINDHOVEN
ARGENTINA	Buenos Aires	Fapesa I.y.C Ave. Crovara 2550		652-7438/7478	
AUSTRALIA	Lane Cove	Philips Industries, Ltd. Elcoma Division 67-71 Mars Road	2066 N.S.W.	42 1261	
AUSTRIA	Wien	Oesterreichische Philips Bauelemente Industrie G.m.b.H. Zieglergasse 6	A-1072	93 26 22	
BELGIUM	Brussels	M.B.L.E. 80 Rue des Deux Gares	B-1070	23 00 00	
BRAZIL	Sao Paulo, SP	Ibrape S.A. Av. Paulista 2073-S/Loja		278-1111	
CANADA	Ontario	Philips Electron Devices, Ltd. 116 Vanderhoof Avenue Toronto 17	M4G 2J1	425-5161	
DENMARK	Kobenhavn NV	Miniwatt A/S Emdrupvej 115A	DK-2400	(01)69 16 22	
FINLAND	Helsinki 10	Oy Philips Ab Elcoma Division Kaivokatu 8	SF-00100	1 72 71	
FRANCE	Paris 11	R.T.C. (RTCF)* La Radiotechnique\Compelec 130 Avenue Ledru Rollin	F-75540	357 69 30	
GERMANY	Hamburg 1	Valvo GmbH (VALG)* Valvo Haus Burchardstrasse 19	D-2000	(040)3296-1	

* Manufacturer Code inside ( ) can be found in Section 16, Manufacturers Code Names & Addresses

Continued on next page

PHIN — PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BF, Eindhoven, Netherlands				040 79 11 11	PHILIPS EINDHOVEN
HONG KONG	Kwuntong	Philips Hong Kong Ltd. Components Dept. 11th Fl. Din Wai Ind. Bldg. 49 Hoi Yuen Road		K-42 82 05-8	
ITALY	Milano	Philips S.p.A. Sezione Elcoma Piazza IV Novembre 3	I-20124	6994	
JAPAN	Tokyo	Nihon Philips 32nd Floor, World Trade Center Bldg. 5, 3-chome, Shiba Hamamatsu-cho Minato-ku		(435)5204-5	
MEXICO	Mexico 6, D.F.	Electronica S.A. de C.V. Varsovia No. 36		5-33-11-80	
NETHERLANDS	Eindhoven	Philips Nederland B.V. Afd. Elonco Boschdijk 525	NL-4510	(040)79 33 33	
NORWAY	Oslo 3	Electronica A/S Middelthunsgate 27		46 39 70	
SOUTH AFRICA	Johannesburg	EDAC (Pty.) Ltd. South Park Lane New Doornfontein		24/6701-2	
SPAIN	Barcelona 7	Copresa S.A. Balmes 22		232 66 80	
SWEDEN	Stockholm 27	Elcoma A.B. Lidingovagen 50	S-10250	08/67 97 80	

* Manufacturer Code inside ( ) can be found in Section 16, Manufacturers Code Names & Addresses

Continued on next page

PHIN — PHILIPS GLOEILAMPENFABRIEKEN (Cont'd)

			Zip Code	Telephone No.	Cable
PRODUCT DIVISION ELCOMA Building BF, Eindhoven, Netherlands				040 79 11 11	PHILIPS EINDHOVEN
SWITZERLAND	Zuerich	Philips A. G. Elcoma Abteilung Edenstrasse 20	CH-8027	01/44 22 11	
TAIWAN	Taipei	Philips Taiwan Ltd. Elcoma Division San Min Bldg., 3rd Floor 57-1 Chung Shan N. Road		55 31 01-5	
UNITED KINGDOM	London	Mullard Ltd. (MULB)* Mullard House Torrington Place	WC1E 7HD	01-580-6633	
UNITED STATES	Rhode Island	Amperex Electronic Corp. (APX)* Sem. & Microcircuits Division Providence Pike Slatersville	02876	401-762-9000	

* Manufacturer Code inside ( ) can be found in Section 16, Manufacturers Code Names & Addresses

PLSB — PLESSEY SEMICONDUCTORS

			Zip Code	Telephone No.	Telex
Cheney Manor, Swindon, Wiltshire, England			SN2 2QW	0793-6251	449637
UNITED STATES					
CALIFORNIA	Santa Ana	Plessey Semiconductors 1674 McGaw Avenue	92705	714-540-9945	TWX 910-595-1930

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RTN — RAYTHEON SEMICONDUCTOR

	Zip Code	Telephone No.	TWX
350 Ellis Street, Mountain View, California	94042	415-964-4754	910-379-6481

SGAI – SGS-ATES COMPONENTI ELETTRONICI S.P.A.

			Zip Code	Telephone No.	Telex
Via C. Olivetti 1, Agrate Brianza, Italy			20041	39-650141	36131
ENGLAND	Aylesbury Bucks	SGS-ATES (United Kingdom) Ltd. Walton Street		5977	83245
FRANCE	Paris 13e	SGS-ATES France SA 58, Rue du Dessous des Berges		589-52-23	021/25938
GERMANY	Wasserburg Inn	SGS-ATES Deutschland GmbH Postfach 1269	809	08071/721	525143
ITALY	Milano	SGS-ATES Componenti Elettronici S.p.A. Via Tempesta 2		4695651	31481
SINGAPORE	Singapore 12	SGS-ATES Singapore (PTE) Ltd. Lorong 4 and 6 Toa Payoh		531411	21412
SWEDEN	Marsta	SGS-ATES Scandinavia AB Postbox	19501	0760/40120	10932
U. S. A.	Massachusetts	SGS-ATES Semiconductor Corporation 435 Newtonville Avenue Newtonville	02160	617-969-1610	922482

SEE OUR AD INSIDE FRONT COVER

SIC – SIGNETICS CORPORATION

	Zip Code	Telephone No.	TWX
811 East Arques Avenue, Sunnyvale, California	94086	408-739-7700	910-339-9220 910-339-9283

SOD – SOLITRON DEVICES, INC.

			Zip Code	Telephone No.	TWX
CORPORATE OFFICES 256 Oak Tree Road, Tappan, New York			10983	914-359-5050	710-576-2654
CALIFORNIA	San Diego	Solitron Devices, Inc. 8808 Balboa Avenue	92123	714-278-8780	910-335-1221
FLORIDA	Riviera Beach	Solitron Devices, Inc. 1177 Blue Heron Blvd.	33404	305-848-4311	510-952-6676
INTERNATIONAL					Telex
ENGLAND AND EUROPE	Bedminster	Solidev Ltd. Edison Road Elms Industrial Estate Bedford		(0732)60531	825461

SPR – SPRAGUE ELECTRIC COMPANY

	Zip Code	Telephone No.	Telex
SEMICONDUCTOR DIVISION 115 Northeast Cutoff, Worcester, Massachusetts	01606	617-853-5000	920476

TADI – TADIRAN

			Zip Code	Telephone No.	Cable
ISRAEL ELECTRONICS INDUSTRIES, LTD. TADIRAN COMPONENTS DIVISION 3 Hashalom Road, P.O. Box 648, Tel-Aviv, Israel			61100	267272	TADIRAN TEL AVIV Telex 033-537
BELGIUM	Bruxelles	Neotron Electronics 37 Rue de Florence		386173	Cable CETEREL BRUB Telex 24088
ENGLAND	Slough	Auriema Limited 442 Bath Road	SL1 6BB	062 86 61931	Cable AURIEMA SLOUGH Telex 847155
FRANCE	Paris 18e	GANCO 11, Passage Lathuile		292-18-59	Cable SYSTELE PARIS Telex 21550 Ext 198
GERMANY (West)	Dortmund	Elektronik Bauelemente GmbH 15 Viktoria Strasse		(231) 528065	Cable ELEKTRONIK DORTMUND Telex EBDO 822382
ITALY	Milano	Auriema Italia S.R.L. Via Domenichino 19	20149	(02)430602 (02)437329 (02)490231	Cable AURIEMA MILANO Telex 34576 AURIEMA
SPAIN	Madrid 2	ELICO S.A. Constancia No. 43		2537062	Cable ELICOSA

THCF – THOMSON-CSF

			Zip Code	Telephone No.	Telex
DIVISION SEMICONDUCTEURS SESCOSEM 101 Bd. Murat, 75781 Paris Cedex 16, France				525-75-75	28060
AUSTRALIA	Melbourne	Thomaus GPOB 3647X	3001	676363	THOMAUS.AA 31888
AUSTRIA	Wien	Transalpina Electronica Ltda Elisabethstrasse 8	A 1010	56.15.71	Inland 12 717
BELGIUM	Bruxelles 5	Thomson S.A. – N.V. Avenue Louise 196A	B 1050	49.29.54	23 113
BRAZIL	Sao Paulo	Thomson CSF Componentes do brasil Avenue Ibirapuera 2572		61.64.83	EMBRALCL SP 309171 SAO PAULO
DENMARK	Copenhagen	Scan Supply 20 Nannasgade	2200	193 5030	9037
ENGLAND	London W5	Thomson-CSF (U.K.) Ltd. Bilton House Uxbridge Road Ealing		579 55 11	Tesafi 25 659
FINLAND	Helsinki 25	OY Sufra AB Ruusulankatu 20 A 12		49.01.37	Pierrejoly Helsinki
FRANCE	Aix En Provence	Sescosem Service Commercial 15, rue Camille Pelletan	13102	(91)27 98 15	41.665
	Saint Egreve	Sescosem Service Commercial	38120	(76)964848	
GERMANY	Munchen 25	Sescosem Halbleiter GmbH Fallstrasse 42	8000	89 73 10 42	522.916
ITALY	Milano	Mistral S.p.A. Via Melchiorre Gioia, 72	20.125	68 84 141	Ducato 31.042

Continued on next page

THCF — THOMSON-CSF (Cont'd)

			Zip Code	Telephone No.	Telex
DIVISION SEMICONDUCTEURS SESCOSEM 101 Bd. Murat, 75781 Paris Cedex 16, France				525-75-75	28060
NORWAY	Oslo 6	Feiring AS Sandakervein 46 B Nils Hansens Vei, 7 Box 4376, Toshov		(2)686360	16 435 feiring 0
PORTUGAL	Lisbon	Sd. Com Rualdo Rua S. Jose 15		P.P.C. 33725	Rualdo 6447P Lisbonne
SOUTH AFRICA	Dunswart	Allied Electric Pty. Post Office Box 90		52.43.41	Solidstate Dunswart
	Alberton (Transvaal)	Comtek Post Office Box 57		869.57.86	J-4376 34
SPAIN	San Juan Despi (Barcelona)	Componentes Electronicos S.A. Poligono Industrial, Fontsanta Calle, H.S/N		319.46.50	53077
SWEDEN	Solna 3	Elektrholm AB Dalvagen 12 S	17 103	82.02.80	19.389
SWITZERLAND	Berne 9	Modulator S.A. Fischerweg 11.13	CH3000	21 21 42	32 431
THE NETHERLANDS.	La Haye	C.G.E. Compagnie Generale d'Electricita N.V. Koninginnegracht 64		60.88.10	31.045
U. S. A.	California	Nucleonic Products Company, Inc. 6660 Variel Avenue Canoga Park	91303	(213)887-1010	651.479

TSC — TELEDYNE SEMICONDUCTOR

			Zip Code	Telephone No.	TWX
WORLDWIDE HEADQUARTERS					
1300 Terra Bella Avenue, Mountain View, California			94043	415-968-9241	910-379-6494 Telex 34-8416
DOMESTIC OFFICES					
EAST COAST					
NEW YORK	Hauppauge	Teledyne Semiconductor 330 Motor Parkway Room 206	11787	516-231-9400	510-227-9861
MID-WEST					
ILLINOIS	Des Plaines	Teledyne Semiconductor 6600 North Mannheim Road	60018	312-299-6196	910-233-0897
INTERNATIONAL					
BELGIUM	Brussels	Teledyne Belgium S.A. Semiconductor Division Chausee de la Hulpe 181-8th Fl.	1170	(32)(2)739988	Telex (846)25881
ENGLAND	Middlesex	Teledyne Semiconductor Ltd. Heathrow House Cranford, Hounslow		(44)01-897-2501	
HONG KONG	Kowloon	Teledyne Semiconductor 10, Sam Chuk Street San Po Kong		K-207764	Telex HX 3549
JAPAN	Tokyo	Teledyne Semiconductor Nehonseimei-Akasaka Bldg. (3F) 1-19, Akasaka 8-chome Minato-ku	107	(03)405-5738	Telex (781)2424241
WEST GERMANY	Tiengen	Teledyne Semiconductor Albert Gebhardtstrasse 32	7897	(49)(7741)5066	Telex (841)7921462

16. MANUFACTURERS CODES, NAMES & ADDRESSES

MANUFACTURERS' CODES, NAMES, AND ADDRESSES

QPL MFR. DESIG.	FSCM No.	D.A.T.A. MFRS.' CODE	
		ACO	– Acopian Corporation, P.O. Box 585, Easton, Pennsylvania 18042
		ALGG	– **AEG-Telefunken, D-71 Heilbronn, Postfach 1042, West Germany**
		AMV	– Advanced Micro Devices, Inc., 901 Thompson Place, Sunnyvale, California 94086
	24355 –	ANA	– Analog Devices, Inc., Route 1, Industrial Park, P.O. Box 280, Norwood Mass. 02062
	73445 –	**APX**	– **Amperex Electronic Corp., Providence Pike, Slatersville, Rhode Island 02876** (also under PHIN, Sec. 15)
	33163 –	**BAH**	– **Bell & Howell, Control Products Div., 706 Bostwick Ave., Bridgeport, Connecticut 06605**
	80740 –	BEC	– Beckman Instruments, Inc., Helipot Div., 2500 Harbor Blvd., Fullerton, California 92634
		BTRG	– Bentron Elektronik GmbH, 8 Munchen 19, Schulstrasse 21, Germany
	13919 –	BUB	– Burr-Brown Research Corp., P.O. Box 11400, Tucson, Arizona 85734
		CDI	– Computer Dynamics, 245 East Elm Street, Torrington, Conencticut 06790
		CMI	– CTS Microelectronics, Inc., 1201 Cumberland Ave., West Lafayette, Indiana 47906
	34031 –	CML	– Computer Labs, 1109 South Chapman Street, Greensboro, North Carolina 27403
CCUR –	16352 –	CODI	– CODI Semiconductor, Div. of Computer Diode Corp., Politt Drive, Fairlawn, New Jersey 07410
		CPR	– Computer Products, Post Office Box 23849, Fort Lauderdale, Florida 33307
	19647 –	DDC	– DDC, 105 Wilbur Place, Airport International Plaza, Bohemia, New York 11716
		DIC	– **Dickson Electronics Corporation, P.O. Box 1390, Scottsdale, Arizona 85252**
		DMC	– Dynamic Measurements Corp., 6 Lowell Ave., Winchester, Massachusetts 01890
	97525 –	EEC	– Electronic Eng. Co. of Calif., Components Div., Module Dept., 1441 E. Chestnut Ave., Santa Ana, Calif. 92702
		EELC	– Epitek Electronics, Ltd., 19 Grenfell Crescent, Ottawa 12, Ontario, Canada
	25289 –	EGG	– EG & G, Inc., Electro-Optics Div., 35 Congress Street, Salem, Massachusetts 01970
	06111 –	FCP	– Fairchild Microwave & Opto Electronics Div., 3500 Deer Creek Rd., Palo Alto, California 94304
	K1196–	**FERB**	– **Ferranti Ltd., Electronics Dept., Gem Mill, Chadderton, Oldham, Lancashire, England**
	07263 –	**FSC**	– **Fairchild Semiconductor, 464 Ellis Street, Mountain View, California 94040**
	14936 –	GIC	– General Instrument Corporation, 600 West John Street, Hicksville, New York 11802
		HAL	– Halex, Inc., 3500 West Torrance Blvd., P.O. Box 2940, Torrance, California 90509
	91417 –	HAS	– Harris Semiconductor, P.O. Box 883, Melbourne, Florida 32901
		HBC	– Hybrid Systems Corp., 87 Second Avenue, Burlington, Massachusetts 01803
		INL	– **Intersil, Inc., 10900 No. Tantau Avenue, Cupertino, California 95014**
		INT	– Intronics, Inc., 57 Chapel Street, Newton, Massachusetts 02158
		INTG	– Intermetall, Halbleiterwerk der Deutsche ITT Ind. GmbH, 78 Freiburg im Breisgau, Hans-Bunte-Strasse 19, Germany
		IPI	★ Integrated Photomatrix, Inc., 1101 Bristol Road, Mountainside, New Jersey 07092
		ITH	– Ithaco, Inc., 735 West Clinton Street, Ithaca, New York 14850
	33967 –	ITI	– Intech, Inc., 1220 Coleman Avenue, Santa Clara, California 95050
	14433 –	ITT	– ITT Semiconductors, 3301 Electronics Way, West Palm Beach, Florida 33407
		LED	– Ledex, Inc., 123 Webster Street, Dayton, Ohio 45402
	51083 –	LSI	– Lithic Systems, Inc., 15800 Sanborn Road, P.O. Box 478, Saratoga, California 95070
		MATJ	– **Matsushita Electronics Corp., Takatsuki, Osaka, Japan**
	13656 –	MDI	– Modular Devices, Inc., 1385 Lakeland Avenue, Airport International Plaza, Bohemia, New York 11716
		MIA	– MIL Electronics, Inc., 176 Walker Street, Lowell, Massachusetts 01854
		MIS	– **Mini-Systems, Inc., 20 David Road, North Attleboro, Massachusetts 02761**
	90144 –	MITJ	– Mitsubishi Electric Corp., 4-1, Mizuhara, Itam-Shi, Hyogo-Ken, Post Code 664, Japan

★ NEW MANUFACTURERS

Manufacturers shown in bold print have local offices, which are included in Section 15 of this D.A.T.A.BOOK.

MANUFACTURERS' CODES, NAMES, AND ADDRESSES (CONTINUED)

QPL MFR. DESIG.	FSCM No.	D.A.T.A. MFRS.' CODE	
	50507 –	MNC	– Micro Network Corporation, 5 Barbara Lane, Worcester, Massachusetts 01604
	04713 –	MOTA	– Motorola Semiconductor Products, Inc., 5005 E. McDowell Rd., Phoenix, Arizona 85008
		MPI	– **Micropac Industries, Inc., 905 E. Walnut Street, Garland, Texas 75040**
	K1596–	**MULB**	– **Mullard Limited, Mullard House, Torrington Pl., London WC1E 7HD, England** (under PHIN, Sec. 15)
		NEC	– Nuclear Equipment Corp., 931 Terminal Way, San Carlos, California 94070
		NECJ	– Nippon Electric Co., Ltd., 1753 Shimonumabe, Kawasaki City, Japan
	08257 –	NPC	– Nucleonic Products, Inc., 6660 Variel Ave., P.O. Box 1454, Canoga Park, California 91303
		NPP	– National Power Products, Inc., P.O. Box 292, Haverhill, Massachusetts 01830
	12040 –	NSC	– National Semiconductor, Microcircuits Div., 2900 Semiconductor Dr., Santa Clara, Calif. 95051
	26287 –	OEI	– Optical Electronics, Inc., P.O. Box 11140, Tuscon, Arizona 85734
	24699 –	**OPA**	– **Opamp Labs, Inc., 1033 North Sycamore Ave., Los Angeles, California 90038**
		OPT	– Optimax, Inc., P.O. Box 105, Advance Lane, Colmar, Pennsylvania 18915
	08967 –	**PHIN**	– **N. V. Philips Gloeilampenfabrieken, C. A. Elcoma-8F, Eindhoven, Netherlands**
	88217 –	**PLSB**	– **Plessey Semiconductors, Cheney Manor, Swindon, Wiltshire, England**
	06665 –	PMI	– Precision Monolithics, Inc., 1500 Space Park Drive, Santa Clara, California 95050
		QUM	– Q. D. C. Corporation, RD No. 3, Somerville, New Jersey 08876
CRC –	19089 –	RCA	– RCA Corporation, Solid State Div., Route 202, Somerville, New Jersey 08876
	12556 –	**RTCF**	– **R.T.C. La Radiotechnique-Compelec, 130, Ave. Ledru-Rollin, 75540 Paris Cedex 11, France** (under PHIN, Sec.
	07933 –	**RTN**	– **Raytheon Company, 350 Ellis Street, Mountain View, California 94042**
		SAKJ	– Sanken Electric Co., Ltd., 1-22-8 Nishi, Ikebukuro, Toshima-ku, Tokyo, Japan
		SCD	– Semiconductor Circuits, Inc., 306 River Street, Haverhill, Massachusetts 01830
		SGAI	– **SGS-ATES Componenti Elettronici S.p.A., Via C. Olivetti 1, Agrate Brianza, Italy**
	34333 –	SGL	– Silicon General Inc., 7382 Bolsa Avenue, Westminister, California 92683
	18324 –	**SIC**	– **Signetics Corporation, 811 E. Arques Avenue, Sunnyvale, California 94086**
	92346 –	SIEG	– Siemens Aktiengesellschaft, Semicon. Div., Balanstrasse 73, 8000 Munich 8, Germany
CDBN –	17856 –	SIX	– Siliconix, Inc., 2201 Laurelwood Rd., Santa Clara, California 95054
CDCD –	17850 –	**SOD**	– **Solitron Devices, Inc., 8808 Balboa Ave., San Diego, California 92123**
CSF –	56289 –	**SPR**	– **Sprague Electric Company, 115 Northeast Cutoff, Worcester, Massachusetts 01606**
	11911 –	SSE	– Solid State Electronics Corp., 15321 Rayen St., Sepulveda, California 91343
		STK	– Statek Corporation, 1200 Alvarez Avenue, Orange, California 92668
		TADI	– **Tadiran, Israel Electronics Ind., Ltd., 3 Hashalom Rd., POB 648, Tel Aviv 6100, Israel**
CCAB –	03877 –	TEC	– Transitron Electronic Corp., 168-182 Albion St., Wakefield, Massachusetts 01881
		THCF	– **Thomson-CSF, Div. Semiconductors SESCOSEM, 101 Blvd. Murat, 75781 Paris Cedex 16, France**
	01295 –	TII	– Texas Instruments, Inc., Components Group. P.O. Box 5012, Dallas, Texas 75222
	K0461–	TIIB	– Texas Instruments, Ltd., Manton Lane, Bedford, England
	29832 –	TPN	– Teledyne Philbrick, Allied Drive at Route 128, Dedham, Massachusetts 02026
		TRA	– Tecnetics, Inc., P.O. Box 910, Boulder Industrial Park, Boulder, Colorado 80302
		TSC	– **Teledyne Semiconductor, 1300 Terra Bella Ave., Mountain View, California 94043**
		VALG	– **Valvo GmbH, P.O. Box 993, D2000, Hamburg 1, Germany** (under PHIN, Sec. 15)
		ZEL	– Zeltex, Inc., 940 Detroit Ave., Concord, California 94518

★ NEW MANUFACTURERS

Manufacturers shown in bold print have local offices, which are included in Section 15 of this D.A.T.A.BOOK.

SYMBOLS & CODES EXPLAINED

IN TYPE No. CROSS INDEX AND TECHNICAL SECTIONS

FOLLOWING TYPE No.

⍁ △ % } Indicators of separate manufacturers producing same type number (non-JEDEC) whose characteristics are not the same. This manufacturer-identifying symbol (assigned by D.A.T.A.) is an integral part of the type number (in Type No. Cross Index, Technical Data Sections) to avoid the possibility of confusing the devices of one manufacturer with the devices of others.

1, # 2, ... Device has two or more modes of operation – listed on separate lines in the same technical section.

– RT ... Suffix indicates device is a replacement type; consult manufacturer

Note: Chip packages are recognizable by the prefix 'FC' in the drawing number

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

▼ – NEW TYPE
♦ – REVISED SPECIFICATION
– NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

▼ – CUSTOM CIRCUIT
§ – DEVICE HAS TWO OR MORE MODES OF OPERATION–LISTED IN SEPARATE TECHNICAL SECTIONS
* – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
∅ – DUAL COMPARATORS (SECT. 9 ONLY)
† – PROGRAMMABLE OP-AMP CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
$ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP. RANGE CODE

0– 0 up to 10°C
1– 10 up to 20°C
2– 20 up to 30°C
3– 30 up to 40°C
4– 40 up to 50°C
5– 50 up to 60°C
6– 60 up to 70°C
7– 70 up to 80°C
8– 80 up to 90°C
9– 90 up to 100°C
A–100 up to 110°C
B–110 up to 120°C
C–120 up to 130°C
D–130 up to 140°C
E–140 up to 150°C
F–150 up to 160°C
G–160 up to 170°C
H–170 up to 180°C
J –180 up to 190°C
K–190 up to 200°C
M–200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

MIN. VALUE LIES BETWEEN	MAX. VALUE LIES BETWEEN
–50° AND –60°	+120°C AND +130°C

OR

$ 8

BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

OUTLINE DRAWINGS

CB– PRINTED CIRCUIT BOARD
CN– CAN TYPE– NON-JEDEC OUTLINE
FC– FLAT PACK CHIP NON-JEDEC OUTLINE
FP– FLAT PACK– NON-JEDEC OUTLINE
M– MOUNTED ON A HEAT SINK
MP– MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
△ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
⍁ – PACKAGE ONLY SHOWN

3. OPERATIONAL AMPLIFIERS & 4. DIFFERENTIAL AMPLIFIERS

PWR SUP @25°C RATED SPECS		INPUT CHARACTERISTICS						MIN. OUTPUT CHAR.@25°C		MIN TRANSFER CHAR @ 25°C			
		OVER OPERATING TEMP. RANGE				MIN.-@25°C							
		MAX VOLTAGE		MAX CURRENT									
1 TOT. VOLT. (ΔV)	2 MAX IDLE P (W)	3 DRFT (V/°C)	4 OFST (V)	OFFSET (A)	BIAS (A)	CM RANGE (ΔV)	DIFF IMP. (Ω)	P-P VOLT. (ΔV)	P-P CUR. (ΔA)	3dB BW (Hz)	O.L. VOLT. GAIN (dB)	SLEW RATE (V/uS)	CMRR (dB)
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1
♦ – ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO

2
† – TYPICAL
* – MINIMUM

3
† – TYPICAL
§ – 25° C
⍁ – OVER LIMITED TEMPERATURE RANGE

4
† – TYPICAL
§ – 25°C
△ – ADJUSTABLE TO ZERO
⍁ – OVER LIMITED TEMPERATURE RANGE

5 6
† – TYPICAL
§ – 25°C
⍁ – OVER LIMITED TEMPERATURE RANGE

7
† – TYPICAL
△ – MAX. SAFE OPERATING RANGE
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO
SE – SINGLE-ENDED INPUT

8
∅ – SINGLE-ENDED INPUT IMPEDANCE
† – TYPICAL
$ – COMMON MODE

9
† – TYPICAL

10
† – TYPICAL
∅ – LOAD IMPEDANCE IN OHMS CORRESPONDING TO OUTPUT VOLTAGE SWING
♦ – NO LOAD

11
† – TYPICAL
∅ – UNITY GAIN BW
§ – GAIN BW PRODUCT

12
† – TYPICAL

13
† – TYPICAL
∅ – FULL POWER BW IN kHZ
⍁ – FULL POWER BW IN MHZ

14
† – TYPICAL

5. AUDIO AMPLIFIERS

PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C							INPUT @25°C		OUTPUT CHAR. @25°C			
		3dB BANDWDTH		4 MIN.	MAX.	MAX.	ΔTEMP		MIN.	MAX.	MAX.	MIN.	MIN.	@
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	VOLT. GAIN (dB)	NOISE FIGURE (dB)	THD (%)	GAIN VAR. (dB)		RESIST (Ω)	VOLTS P-P (ΔV)	RESIST (Ω)	VOLT. P-P (ΔV)	POWER (W)	LOAD RES. (Ω)
1	2	3	4	5	6	7	8	9	10	11	12	13		

1
♦ – ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO

2
† – TYPICAL
* – MINIMUM

3
$ – USEFUL FREQUENCY RANGE
§ – BANDWIDTH < 3db
∅ – FULL POWER BANDWIDTH
% – UNITY GAIN BANDWIDTH
† – TYPICAL

4
† – TYPICAL

5
† – TYPICAL
△ – POWER GAIN
% – CURRENT GAIN
$ – DIFFERENTIAL VOLTAGE GAIN
* – OTHER VALUES OF GAIN AVAILABLE BY EXTERNAL CONNECTION

6
† – TYPICAL
§ – MAX. SIGNAL TO NOISE RATIO
* – MAX. EQUIVALENT INPUT NOISE (uV rms)
∅ – MAX. EQUIVALENT INPUT NOISE (dBm)
△ – MAX. EQUIVALENT OUTPUT NOISE (dBm)

7
† – TYPICAL
♦ – MEASURED AT LESS THAN RATED OUTPUT POWER

8
† – TYPICAL

9
† – TYPICAL
△ – DIFFERENTIAL INPUT

10
* – MINIMUM RANGE FOR LINEAR OUTPUT

11
† – TYPICAL
△ – DIFFERENTIAL OUTPUT

12
† – TYPICAL

13
† – TYPICAL
% – OUTPUT CURRENT SWING (△ mA)
♦ – MEASURED AT HIGHER THAN RATED THD

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

- ▼ – NEW TYPE
- ♦ – REVISED SPECIFICATION
- # – NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

- ▼ – CUSTOM CIRCUIT
- § – DEVICE HAS TWO OR MORE MODES OF OPERATION–LISTED IN SEPARATE TECHNICAL SECTIONS
- * – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
- ∅ – DUAL COMPARATORS (SECT. 9 ONLY)
- † – PROGRAMMABLE OP-AMP CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
- $ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP. RANGE CODE

0– 0 up to 10°C	
1– 10 up to 20°C	
2– 20 up to 30°C	
3– 30 up to 40°C	
4– 40 up to 50°C	
5– 50 up to 60°C	
6– 60 up to 70°C	
7– 70 up to 80°C	
8– 80 up to 90°C	
9– 90 up to 100°C	
A–100 up to 110°C	
B–110 up to 120°C	
C–120 up to 130°C	
D–130 up to 140°C	
E–140 up to 150°C	
F–150 up to 160°C	
G–160 up to 170°C	
H–170 up to 180°C	
J–180 up to 190°C	
K–190 up to 200°C	
M–200°C and ABOVE	

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

MIN. VALUE LIES BETWEEN	MAX. VALUE LIES BETWEEN
–50° AND –60°	+120°C AND +130°C

OR

$ 8

BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN
	+80°C AND +90°C

OUTLINE DRAWINGS

- CB– PRINTED CIRCUIT BOARD
- CN– CAN TYPE–NON-JEDEC OUTLINE
- FC– FLAT PACK CHIP NON-JEDEC OUTLINE
- FP– FLAT PACK–NON-JEDEC OUTLINE
- M– MOUNTED ON A HEAT SINK
- MP– MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
- TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
- Δ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- ∅ – PACKAGE ONLY SHOWN

6. RF/IF AMPLIFIERS

PWR SUP@25°C RATED SPECS		MIN TRANSFER CHARACTERISTICS @25°C						INPUT CHAR @25°C			OUTPUT CHAR. @25°C		
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3 PWR GAIN @ 50Ω LOAD & SOURCE (dB)	SPEC FREQ (Hz)	4 UN-TUNED 3dB BW (Hz)	Y21 (mhos)	Y12 (mhos)	MAX. NF (dB)	MIN. VOLT. P-P (ΔV)	MAX. COND. (mhos)	MAX. CAP. (F)	MIN. VOLT. P-P (ΔV)	MIN. COND. (mhos)	MAX. CAP. (F)
1	2	3		4	5	6	7	8	9	10	11	12	13

1
- ♦ – ONE OR MORE SPECS. ARE NOT AT RATED SUPPLY VOLTAGE
- § – VALUE IS NOT SYMMETRICAL ABOUT ZERO

2
- † – TYPICAL
- * – MINIMUM

3
- Δ – MAX. AVAILABLE POWER GAIN
- * – VOLTAGE GAIN
- % – CURRENT GAIN
- § – AGC AVAILABLE
- † – TYPICAL
- ♦ – LOAD OTHER THAN 50 OHM
- ∅ – AGC THRESHOLD VS FREQ – uVrms

4
- † – TYPICAL
- ♦ – USABLE FREQUENCY RANGE

5
- † – TYPICAL
- * – VOLTAGE GAIN IN dB

6
- † – TYPICAL
- % – REVERSE TRANSFER CAPACITANCE IN pF
- ∅ – REVERSE CURRENT TRANSFER RATIO (G12)

7
- † – TYPICAL

8
- † – TYPICAL
- Δ – ABSOLUTE SAFE MAX.
- ∅ – TYPICAL INPUT POWER AT SATURATION

9
- † – TYPICAL
- Δ – DIFFERENTIAL INPUT

10 11
- † – TYPICAL

12
- † – TYPICAL
- Δ – DIFFERENTIAL OUTPUT

13
- † – TYPICAL
- ♦ – TYPICAL SUSCEPTANCE IN mhos

7. WIDEBAND AMPLIFIERS

PWR SUP@25°C RATED SPECS		TRANSFER CHARACTERISTICS @25°C					INPUT CHAR. @25°C		OUTPUT CHAR. @25°C			TRANSIENT CHAR. @25°C	
1 TOT. VOLT (ΔV)	2 MAX IDLE P (W)	3dB BW 3 MIN. UPPER (Hz)	MAX. LOWER (Hz)	4 MIN. VOLTAGE GAIN (dB)	MAX. NOISE FIGURE (dB)	MAX. THD (%)	MIN RESIST (Ω)	MAX P-P VOLTS (ΔV)	MAX. RESIST (Ω)	MIN. VOLT P-P (ΔV)	LOAD RESIST (Ω)	MAX TIME RISE (s)	MAX TIME DELAY (s)
1	2	3	4	5	6	7	8	9	10	11	12	13	14

1
- ♦ – ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
- § – VALUE IS NOT SYMMETRICAL ABOUT ZERO

2
- † – TYPICAL
- * – MINIMUM

3
- † – TYPICAL
- ∅ – FULL POWER BANDWIDTH
- § – FREQUENCY FOR MIN. GAIN
- Δ – BANDWIDTH LESS THAN 3dB

4
- † – TYPICAL
- Δ – BANDWIDTH LESS THAN 3dB

5
- † – TYPICAL
- Δ – POWER GAIN
- % – CURRENT GAIN
- $ – DIFFERENTIAL VOLTAGE GAIN
- * – OTHER VALUES OF GAIN AVAILABLE BY EXTERNAL CONNECTION
- § – AGC AVAILABLE

6
- † – TYPICAL
- § – MAX. SIGNAL TO NOISE RATIO
- * – MAX. EQUIVALENT INPUT NOISE (uVrms)
- Δ – MAX. EQUIVALENT OUTPUT NOISE (mVrms)

7
- † – TYPICAL
- Δ – INTERMODULATION DISTORTION IN dB

8
- † – TYPICAL
- Δ – DIFFERENTIAL INPUT

9
- † – TYPICAL
- * – MINIMUM RANGE FOR LINEAR OUTPUT

10
- † – TYPICAL
- Δ – DIFFERENTIAL OUTPUT AVAILABLE

11
- † – TYPICAL
- Δ – OUTPUT POWER (mW)

12
- ♦ – NO LOAD

13 14
- † – TYPICAL

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

LINE No.

- ▼ – NEW TYPE
- ♦ – REVISED SPECIFICATION
- # – NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

TYPE No.

- ▼ – CUSTOM CIRCUIT
- § – DEVICE HAS TWO OR MORE MODES OF OPERATION–LISTED IN SEPARATE TECHNICAL SECTIONS
- * – DEVICE CONTAINS TWO OR MORE IDENTICAL OR MATCHED CIRCUITS
- ∅ – DUAL COMPARATORS (SECT. 9 ONLY)
- † – PROGRAMMABLE OP-AMP CHARACTERISTICS GIVEN FOR HIGHEST SPECIFIED BIAS CURRENT (SECT. 3 ONLY)
- $ – CHOPPER STABILIZED (SECT. 3 ONLY)

OPERATING TEMP. RANGE CODE

- 0– 0 up to 10°C
- 1– 10 up to 20°C
- 2– 20 up to 30°C
- 3– 30 up to 40°C
- 4– 40 up to 50°C
- 5– 50 up to 60°C
- 6– 60 up to 70°C
- 7– 70 up to 80°C
- 8– 80 up to 90°C
- 9– 90 up to 100°C
- A–100 up to 110°C
- B–110 up to 120°C
- C–120 up to 130°C
- D–130 up to 140°C
- E–140 up to 150°C
- F–150 up to 160°C
- G–160 up to 170°C
- H–170 up to 180°C
- J –180 up to 190°C
- K–190 up to 200°C
- M–200°C and ABOVE

$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.

EXAMPLES OF OPERATING TEMP. RANGE CODE:

$ 5 C

MIN. VALUE LIES BETWEEN	MAX. VALUE LIES BETWEEN
–50° AND –60°	+120°C AND +130°C

OR

$ 8 C

BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN
	+80°C AND +90°C

OUTLINE DRAWINGS

- CB– PRINTED CIRCUIT BOARD
- CN– CAN TYPE– NON-JEDEC OUTLINE
- FC– FLAT PACK CHIP NON-JEDEC OUTLINE
- FP– FLAT PACK– NON-JEDEC OUTLINE
- M– MOUNTED ON A HEAT SINK
- MP– MOLDED OR ENCAPSULATED PACKAGE NOT INCLUDED IN OTHER CATEGORIES
- TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
- △ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
- ∅ – PACKAGE ONLY SHOWN

8. VOLTAGE REGULATORS

ALL CHARACTERISTICS AT 25°C UNLESS OTHERWISE INDICATED

1 NOM. VOLT OUT (V)	ADJUSTABLE OUTPUT VOLT. RANGE LOW (V)	ADJUSTABLE OUTPUT VOLT. RANGE HIGH (V)	2 MAX INPUT LINE VOLT (V)	MIN OUT/IN DIFF. (ΔV)	3 MAX POWER DISS. @25°C (W)	MAX. LOAD CUR. (A)	MAX. OUTPUT IMP. (Ω)	MAX. OUTPUT DRIFT @ 25°C (V/°C)	MAX LINE REG LINE VOLT CHG. (ΔV)	MAX LINE REG OUTPUT VOLT. CHG. (%)	MAX LOAD REG LOAD CUR. CHG. (ΔA)	MAX LOAD REG OUT VOLT. CHG. (%)	MIN RIPPL REJ. (dB)	MAX TRANSIENT RECOVERY @LINE CHG. (s)	MAX TRANSIENT RECOVERY @LOAD CHG. (s)
1	2	3		4	5		6	7		8		9	10	11	12

1 – § – POSITIVE AND NEGATIVE OUTPUT OF THIS MAGNITUDE; ♦ – NEGATIVE OUTPUT VOLTAGE

2 3 – * – OTHER FIXED NONADJUSTABLE OUTPUT VOLTAGE; % – ACCURACY IN % TOLERANCE OF VALUE INDICATED IN NOM. VOLT. OUT COLUMN

4 – * – MINIMUM INPUT VOLTAGE (V)

5 – § – OVER ENTIRE OPERATING RANGE

6 – † – TYPICAL

7 – † – TYPICAL; % – PERCENT CHANGE OVER ENTIRE RANGE; § – OVER ENTIRE OPERATING RANGE; △ – %/°C

8 – § – VOLTAGE CHANGE IN VOLTS; † – TYPICAL; △ – CHANGE IN %/VOLT; ♦ – % CHANGE FOR MAX. LINE REGULATION

9 – † – TYPICAL; △ – VOLTAGE CHANGE IN VOLTS

10 11 12 – † – TYPICAL

9. VOLTAGE COMPARATORS

PWR SUP@25°C RATED SPECS 1 TOT. VOLT (ΔV)	PWR SUP@25°C RATED SPECS 2 MAX IDLE P (W)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE 3 DRFT (V/°C)	INPUT CHARACTERISTICS OVER OPERATING TEMP. RANGE 4 OFFSET (V)	INPUT CHARACTERISTICS @25°C OFFSET (A)	INPUT CHARACTERISTICS @25°C BIAS (A)	INPUT CHARACTERISTICS @25°C MIN CM RANGE (ΔV)	INPUT CHARACTERISTICS @25°C STROBE CUR-MAX (A)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE POS (V)	OUTPUT CHAR. @ 25°C MIN. OUTPUT VOLTAGE NEG (V)	OUTPUT CHAR. @ 25°C MAX. OUT RES. (Ω)	OUTPUT CHAR. @ 25°C MIN. CURR SINK (A)	W/C TRANSFER CHAR. @25°C VOLT. GAIN (dB)	W/C TRANSFER CHAR. @25°C RESP. TIME (s)
1	2	3	4	5 6		7	8	9	10	11	12	13	14 15 16

1 – ♦ – ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE; § – VALUE IS NOT SYMMETRICAL ABOUT ZERO

2 – † – TYPICAL; * – MINIMUM

3 – † – TYPICAL; § – 25°C; ∅ – OVER LIMITED TEMPERATURE RANGE

4 – † – TYPICAL; § – 25°C; △ – ADJUSTABLE TO ZERO; ∅ – OVER LIMITED TEMPERATURE RANGE

5 6 – † – TYPICAL; § – 25°C; ∅ – OVER LIMITED TEMPERATURE RANGE

7 – † – TYPICAL; △ – MAX. SAFE OPERATING RANGE; § – VALUE IS NOT SYMMETRICAL ABOUT ZERO; SE – SINGLE ENDED INPUT

8 – † – TYPICAL

9 – † – TYPICAL; ∅ – NEGATIVE

10 – † – TYPICAL; § – POSITIVE; △ – MAX.

11 – † – TYPICAL

12 – † – TYPICAL; △ – ABSOLUTE SAFE MAX.

13 – † – TYPICAL

14 15 – NOTE: W/C (WORST CASE) CONDITIONS SPECIFIED: MIN. VOLTAGE GAIN MAX. RESPONSE TIME

16 – † – TYPICAL; § – NOT AT 100 mV INPUT WITH 5mV OVERDRIVE; * – TURN ON TIME; ∅ – RISE TIME

SYMBOLS & CODES EXPLAINED

SYMBOLS & CODES COMMON TO MORE THAN ONE TECHNICAL SECTION

▼ – NEW TYPE
♦ – REVISED SPECIFICATION
– NON-JEDEC TYPE MANUFACTURED OUTSIDE U.S.A.

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$ – CHOPPER STABILIZED (SECT. 3 ONLY)

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A–100 up to 110°C
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$ BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY IS INDICATED.

EXAMPLES OF OPERATING TEMP. RANGE CODE:

5 C

MIN. VALUE	MAX. VALUE
LIES BETWEEN –50° AND –60°	LIES BETWEEN +120°C AND +130°C

OR

$ 8

BOTH VALUES OF TEMP. ARE POS. MAX. VALUE ONLY AS INDICATED.	MAX. VALUE LIES BETWEEN +80°C AND +90°C

CB– PRINTED CIRCUIT BOARD
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TO– OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
OCT– OCTAL PLUG-IN (NO DWG. SHOWN)
△ – MO OUTLINE IN ACCORDANCE WITH JEDEC REGISTRATION
∅ – PACKAGE ONLY SHOWN

MISCELLANEOUS 10.

1 USE	PWR SUP @25°C RATED SPECS		MIN. INPUT CHAR. @25°C		OUTPUT CHAR. @25°C	
	2 TOT. VOLT. (ΔV)	3 MAX. IDLE P (W)	IMPED-ANCE (Ω)	VOLT RANGE (ΔV)	MAX. IMP. (Ω)	MIN VOLT RANGE (ΔV)
	1	2	3	4	5	6	7

1
1. CURRENT AMPLIFIER
2. LOGARITHMIC AMPLIFIER
3. MULTIPLIER
4. SQUARING AMPLIFIER
5. FUNCTION GENERATOR
6. SIN/COS FUNCTION GENERATOR
7. SINE WAVE OSCILLATOR
8. DIVIDER
9. FREQ. TO DC CONVERTER
10. VOLTAGE CONTROLLED CRYSTAL OSCILLATORS
11. VOLT. TO FREQ. CONVERTER

12 thru 49 RESERVED FOR FUTURE USE

2
– ONE OR MORE OF THE CHARACTERISTICS ARE NOT AT RATED SUPPLY VOLTAGE
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO

3
† – TYPICAL
§ – UNDER LOAD CONDITIONS

4
† – TYPICAL
* – MIN. IN CURRENT RANGE IN △mA

5
† – TYPICAL
* – MAX. OFFSET VOLTAGE (mV)
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO
△ – ABSOLUTE SAFE MAX.
— – INDICATES ALL NEGATIVE RANGE

6
† – TYPICAL
* – MIN. OUT CURRENT RANGE IN △mA
∅ – LOAD IMPEDANCE IN OHMS

7
† – TYPICAL
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO
— – INDICATES ALL NEGATIVE RANGE

11.

1 USE

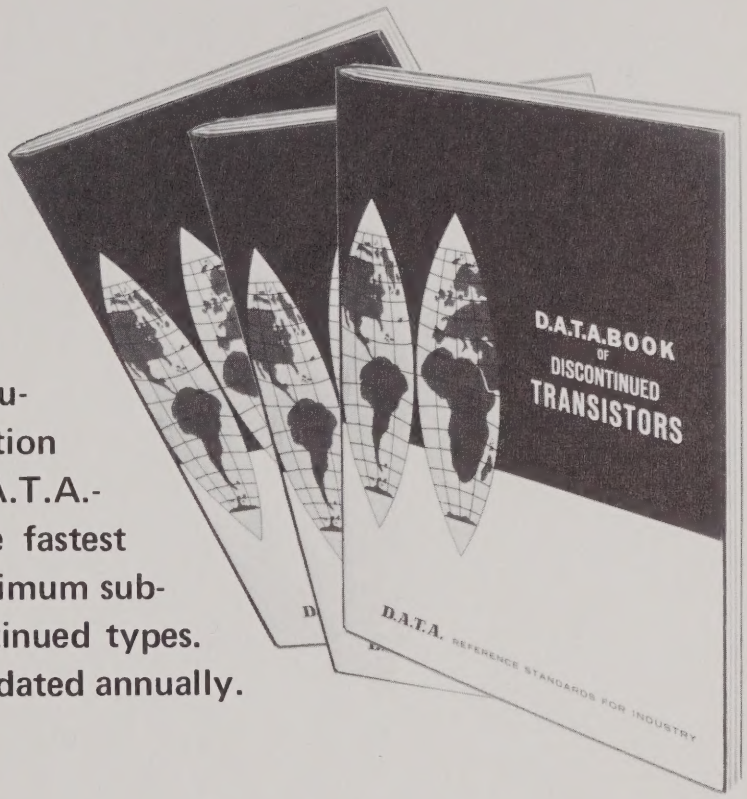
50. AC TO DC POWER SUPPLY
51. DC TO AC POWER SUPPLY (INVERTER)
52. DC TO DC POWER SUPPLY
54. TRANSISTOR ARRAY
55. IDEAL DIODE
56. RING MODULATOR
57. LOGARITHMIC ELEMENTS
58. TEMP. CONTROLLED DIFF. PAIR
59. SPECIAL FUNCTION SUB SYSTEM
60. DIODE ARRAY
61. GENERAL TRANSISTOR STAGE
62. PHASE CONTROL CIRCUIT
63. REFERENCE AMPLIFIERS & DIODES
64. TEMP. COMPENSATED VOLTAGE STABILIZERS
65. ANALOG ADDER/SUMMING AMP.
66. B/W TV CIRCUIT
67. COLOR TV CIRCUIT
68. AUDIO (STEREO & 4-CHANNEL CIRCUIT)
69. AM/FM RF-IF CIRCUIT
70. FM MULTIPLEXER
71. MODULATOR/DEMODULATOR
72. AFC CIRCUIT
73. AGC CIRCUIT
74. MIXER
75. PHASE LOCKED LOOP

GENERAL DESCRIPTION COMMON TO MISCELLANEOUS 10. &11.

∅ – SELECTED RANGES AVAILABLE
△ – MAXIMUM
* – MINIMUM
† – TYPICAL
∅ – ADJUSTABLE
– OVER ENTIRE TEMPERATURE RANGE
§ – VALUE IS NOT SYMMETRICAL ABOUT ZERO
♦ – OPTIONAL CHARACTERISTIC, CONSULT MANUFACTURER
F – FREQUENCY DEVIATION
△ Ii – INPUT CURRENT (P-P)
△ Io – OUTPUT CURRENT (P-P)
△ Vi – INPUT VOLTAGE (P-P)
△ Vo – OUTPUT VOLTAGE (P-P)
△ Vs – POWER SUPPLY SPAN
1% BW– BANDWIDTH FOR 1% ACCURACY
Acc– ACCURACY
Adj– ADJUSTABLE
Anlg.– ANTILOGARITHMIC FUNCTION
BVcbo– BREAKDOWN VOLTAGE COLLECTOR-TO-BASE; EMITTER OPEN-CIRCUIT
BVceo– BREAKDOWN VOLTAGE; COLLECTOR-TO-EMITTER; BASE OPEN-CIRCUIT
BVebo– BREAKDOWN VOLTAGE; EMITTER-TO-BASE; COLLECTOR OPEN-CIRCUIT
BW 3dB– BANDWIDTH
Cd – CAPACITANCE
Darl – NUMBER OF DARLINGTON PAIRS
Dio – NUMBER OF DIODES
Dr – DRIFT WITH TIME
FP BW – FULL POWER BANDWIDTH
Freq. – OPERATING FREQUENCY
Ft – EXTRAPOLATED UNITY GAIN FREQUENCY (GAIN BANDWIDTH PRODUCT). PRODUCT OF THE COMMON-EMITTER CURRENT TRANSFER RATIO AND THE FREQUENCY OF MEASUREMENT AT A FREQUENCY WHERE THE CURRENT GAIN IS DECREASING AT THE RATE OF 6 dB PER OCTAVE. THIS FREQUENCY IS ALSO KNOWN AS THE TRANSITION FREQUENCY.
Gi – CURRENT GAIN
Gv – VOLTAGE GAIN
hFE – DC FORWARD CURRENT TRANSFER RATIO, COMMON EMITTER
I_C – COLLECTOR CURRENT, DC
I_f – FORWARD CURRENT
I_O – OUTPUT CURRENT
I_{os} – OFFSET CURRENT
I_r – REVERSE CURRENT
I_z – ZENER CURRENT
Lgrt – LOGARITHMIC RATIO FUNCTION
Log– LOGARITHMIC FUNCTION
Mod– MODULE HAS BOTH LOG AND ANTILOG FUNCTION
No – OUTPUT NOISE
Pd – TOTAL POWER DISSIPATION
PIV – PEAK INVERSE VOLTAGE
Po – POWER OUTPUT
Reg– LINE OR LOAD REGULATION–WHICHEVER IS WORST CASE
RL– RATED LOAD
Ring – INPUT VOLTAGE RANGE IN dB
Ro – OUTPUT RESISTANCE
Rpl– RIPPLE
Seg– NUMBER OF LINE SEGMENTS
Sen– SENSITIVITY
Sl Rng– SLOPE RANGE
SR – SLEW RATE
TC – TEMPERATURE COEFFICIENT
Trn – NUMBER OF TRANSISTORS
Trr – REVERSE RECOVER TIME
Vbe– BASE-TO-EMITTER VOLTAGE, DC
Vcb– COLLECTOR-TO-BASE VOLTAGE, DC
Vce– COLLECTOR-TO-EMITTER VOLTAGE, DC
V_f – FORWARD VOLTAGE
V_i – INPUT VOLTAGE
V_O – OUTPUT VOLTAGE
V_{os} – OFFSET VOLTAGE
V_{ref} – REFERENCE VOLTAGE
Zz – ZENER IMPEDANCE

How to research obsolete types

3 in three fields



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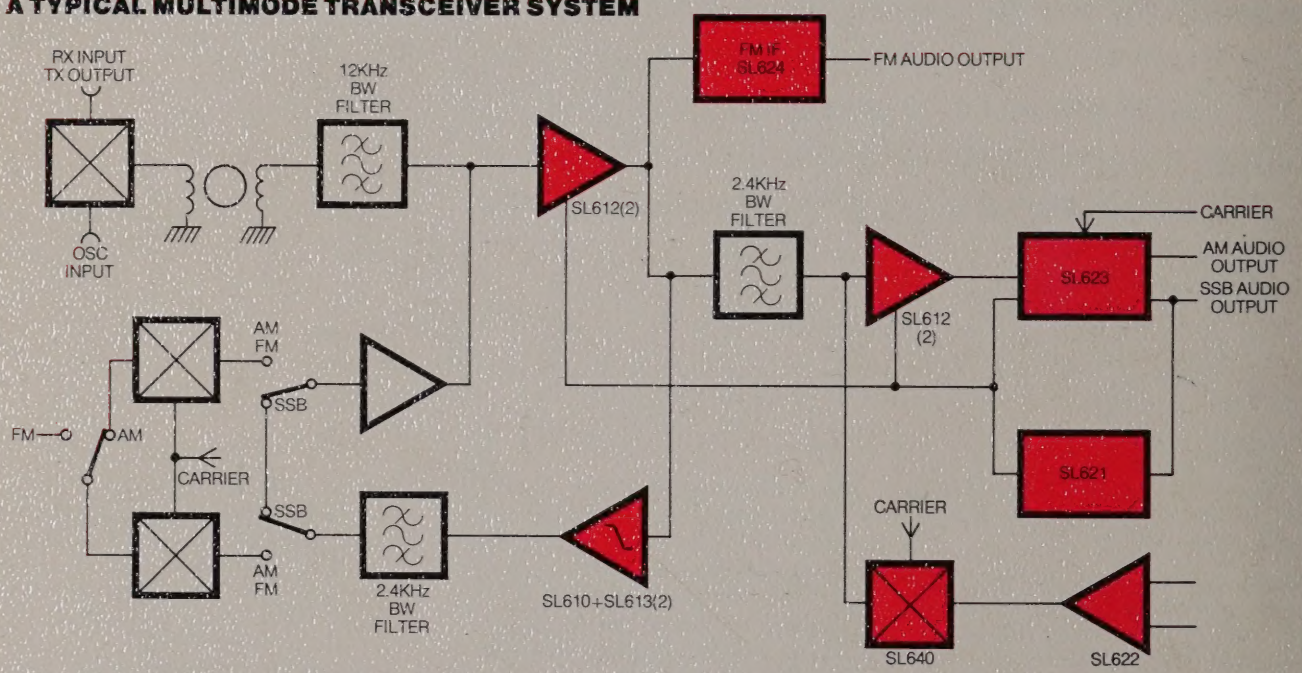

SL610C: RF amplifier
SL612C: IF amplifier
SL613C: Limiting amplifier/detector
SL621C: AGC generator
SL622C: VOGAD
SL623C: AM SSB demodulator
SL624C: Multimode detector
SL630C: Audio amplifier
SL640C: Double balanced detector

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